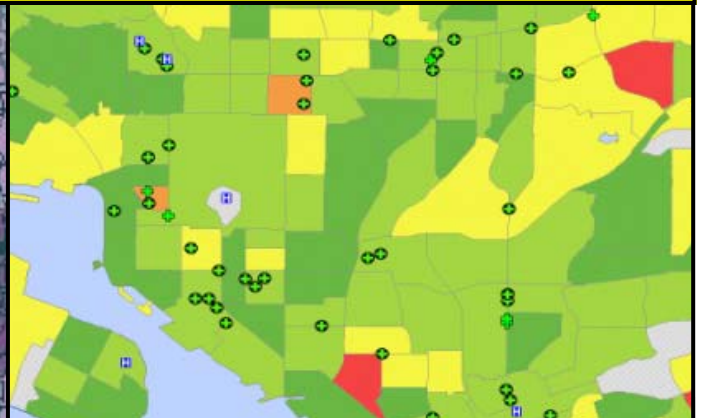
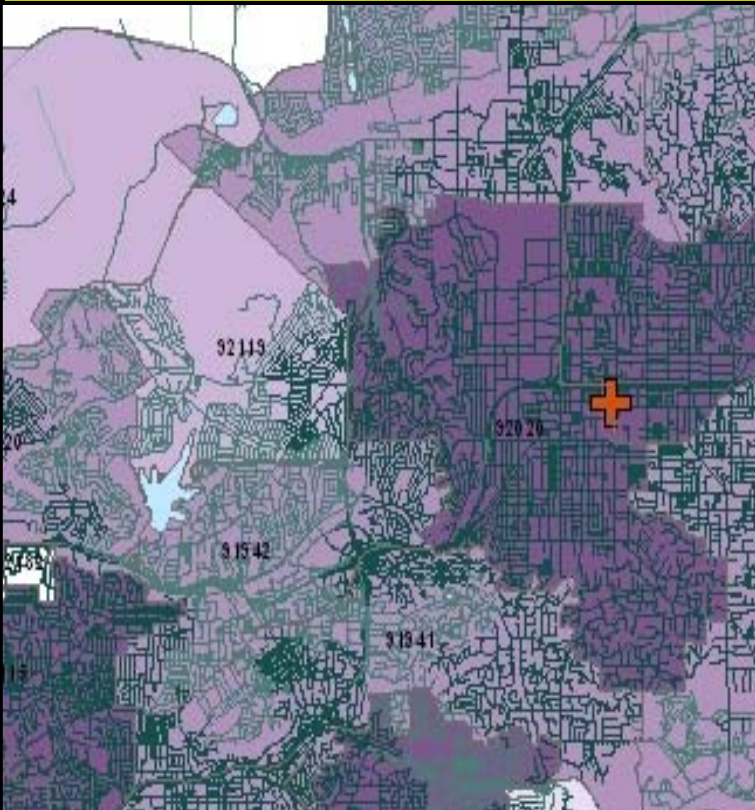


Chronic Disease Atlas - Stroke - San Diego County



JUNE 2012

Stroke Medical Encounter* Rates San Diego County by Subregional Area, by Year

*Stroke deaths refer to underlying (single) cause of death, ICD-10 codes I60-I69.

*Stroke hospitalizations refer to principal diagnosis, ICD-9 CM codes 430-438.

*Stroke emergency department discharges refer to principal diagnosis, ICD-9 CM codes 430-438.

Medical Encounters*

Death Data is based on underlying cause of death (not multiple causes) and uses ICD-10 codes. Those included are residents of San Diego County with known zip code of residence.

Source: Death Statistical Master Files (CA Department of Public Health), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch.

Hospital Data is based on principal diagnosis and uses ICD-9 CM codes. Those included are residents of San Diego County with known zip code of residence.

Source: Hospital Discharge Data, (CA OSHPD), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch.

Emergency Department (ED) Data is based on principal diagnosis and uses ICD-9 CM codes. ED discharges are those patients treated and discharged from the ED. Patients admitted to the hospital are not included here, but in the hospitalization data. Those included are residents of San Diego County with known zip code of residence.

Source: HASD&IC, County of San Diego, Health & Human Services Agency, Emergency Medical Services, Emergency Department Database.

Population Data Source: San Diego Association of Governments (SANDAG), Current Population Estimates, 10/2010.

Data (rates) prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Community Health Statistics Unit, from Community Profile.

Maps prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Emergency Medical Services.

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San Diego, CA 92120

(619) 285-6479

Isabel.Corcos@sdcounty.ca.gov

(Spatial Epidemiologist for EMS)

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Leslie.Ray@sdcounty.ca.gov

(Senior Epidemiologist for EMS and CHSU)

For more detailed explanation of geography, methods, and sources,
see online Community Profile at www.SDHealthStatistics.com

**Stroke Death Rates
Among San Diego County Residents
by Subregional Area**

Maps by Year:

2000

2001

2002

2003

2004

2005

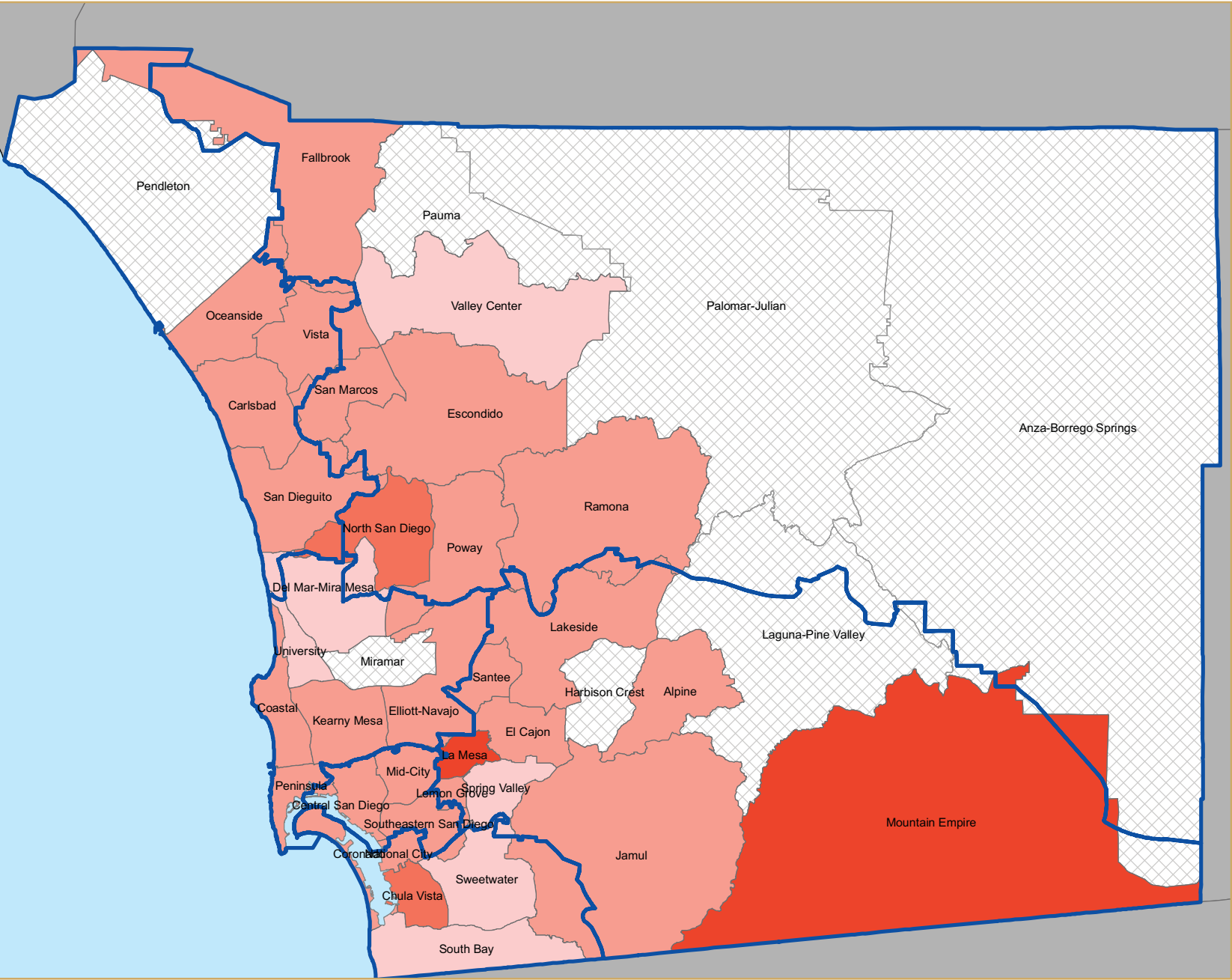
2006

2007

2008



2009

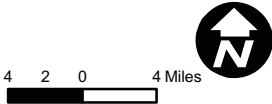
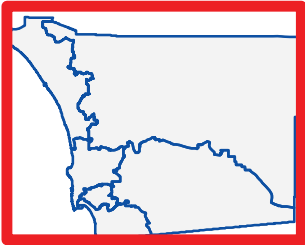
Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County



Stroke Death Rates, 2000

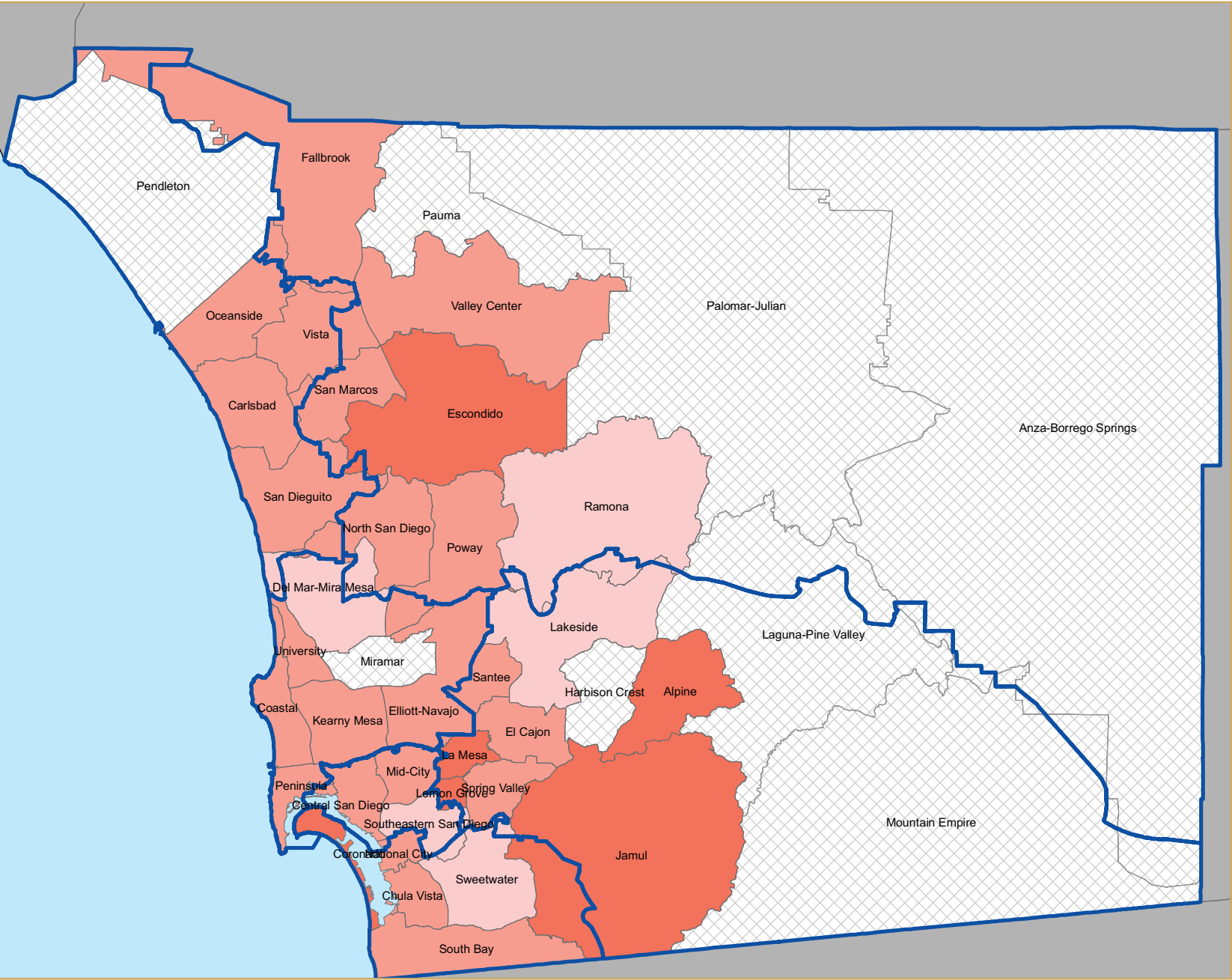
- 1.0 - 40.0
- 40.1 - 80.0
- 80.1 - 120.0
- 120.1 - 160.0
- 160.1 - 200.0

 Data not shown
 HHSA Region



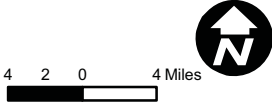
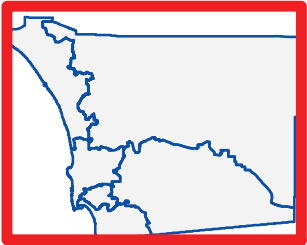
* Rates per 100,000 population.
 † Stroke death refers to (underlying cause of death) ICD-10 codes I60-I69. Stroke is sometimes referred to as Cerebrovascular disease.
 § Rates not calculated for fewer than 5 events. Rates not calculated in cases where zip code is unknown or outside San Diego County.

Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County



Stroke Death Rates, 2001

- 1.0 - 40.0
- 40.1 - 80.0
- 80.1 - 120.0
- 120.1 - 160.0
- 160.1 - 200.0
- Data not shown
- HHSA Region



* Rates per 100,000 population.

† Stroke death refers to (underlying cause of death) ICD-10 codes I60-I69. Stroke is sometimes referred to as Cerebrovascular disease.

§ Rates not calculated for fewer than 5 events. Rates not calculated in cases where zip code is unknown or outside San Diego County.

Source: Death Statistical Master Files (CA DPH), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch; SANDAG, Current Population Estimates, 4/24/2009.

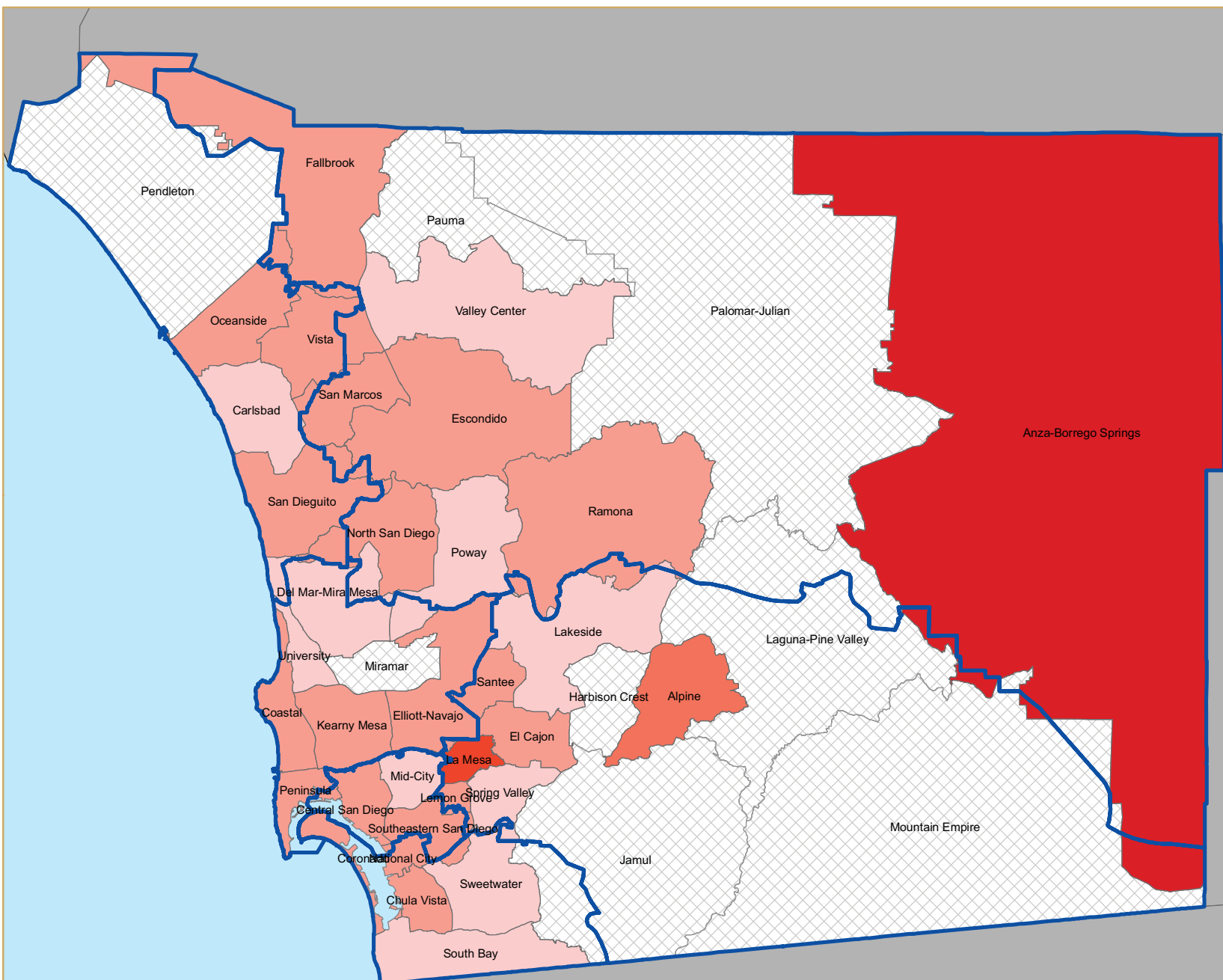
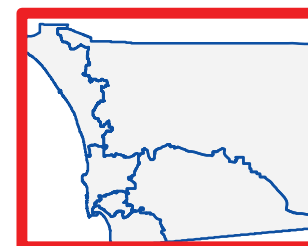
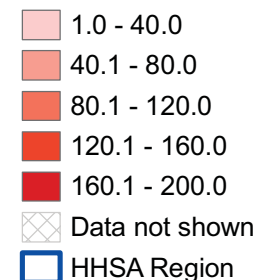
Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 9/10/2010.

Map Date: September, 2010
 Contact: Isabel Corcos or Leslie Ray,
 County of San Diego Emergency Medical Services
 619.285.6429

NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
 D_North_American_1983, Foot_US

Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke Death Rates, 2002



* Rates per 100,000 population.

† Stroke death refers to (underlying cause of death) ICD-10 codes I60-I69. Stroke is sometimes referred to as Cerebrovascular disease.

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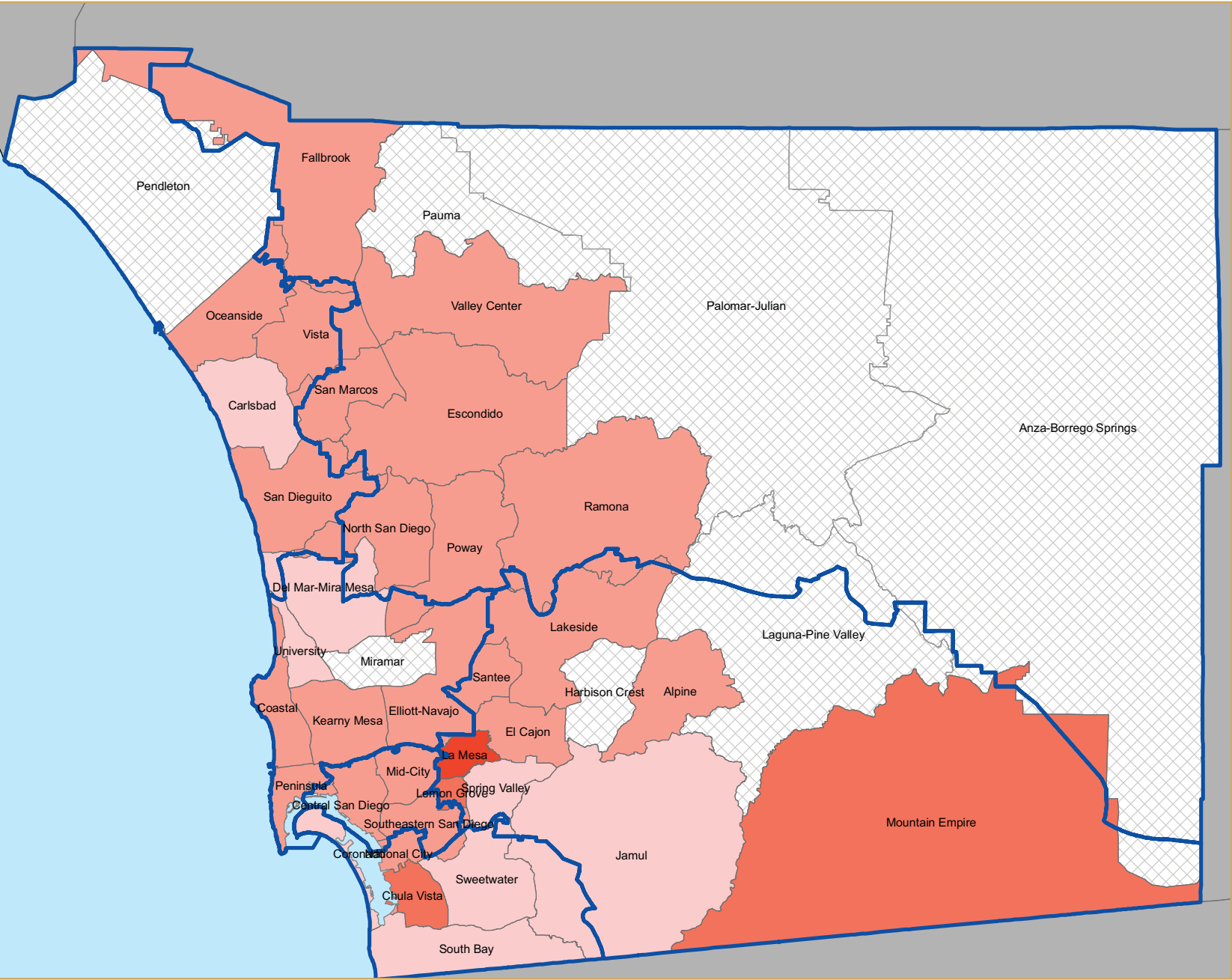
Source: Death Statistical Master Files (CADPH), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch; SANDAG, Current Population Estimates, 4/24/2009.

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NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
D_North_American_1983, Foot_US

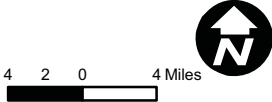
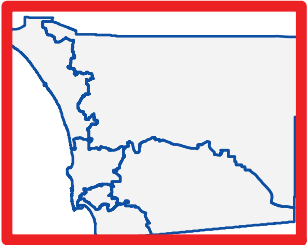
Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County



Stroke Death Rates, 2003

- 1.0 - 40.0
- 40.1 - 80.0
- 80.1 - 120.0
- 120.1 - 160.0
- 160.1 - 200.0

- Data not shown
- HHSA Region



* Rates per 100,000 population.

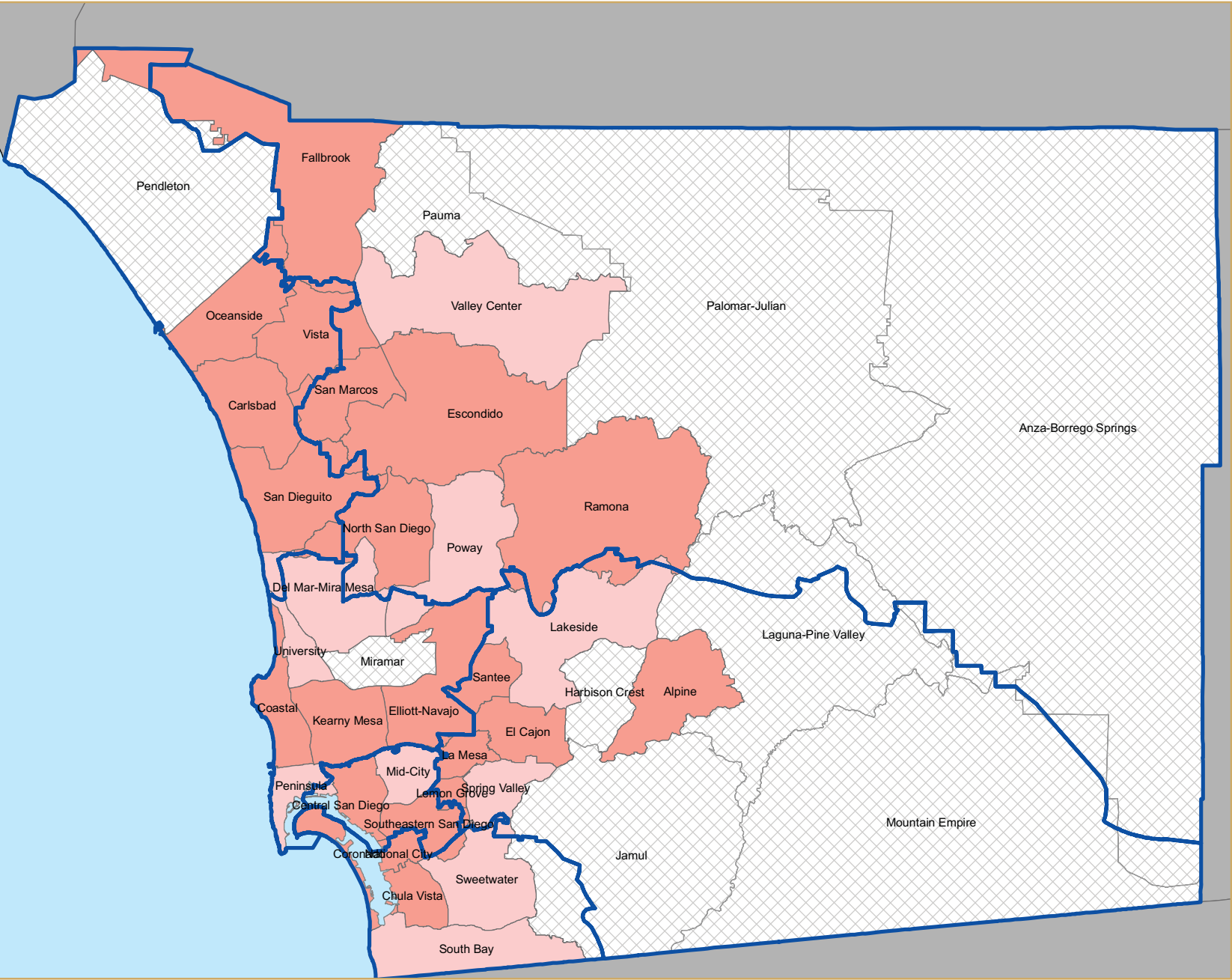
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Source: Death Statistical Master Files (CADPH), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch; SANDAG, Current Population Estimates, 4/24/2009.

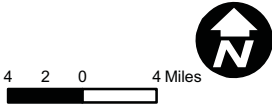
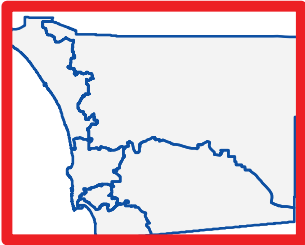
Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 9/10/2010.

Chronic Disease Outcome Rates
by Subregional Area (SRA)
in San Diego County



Stroke Death Rates, 2004

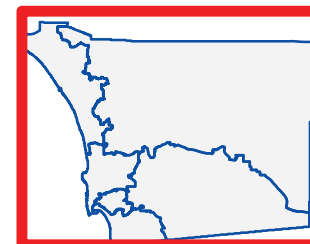
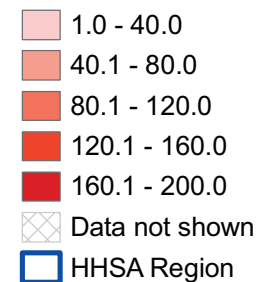
- 1.0 - 40.0
- 40.1 - 80.0
- 80.1 - 120.0
- 120.1 - 160.0
- 160.1 - 200.0
- Data not shown
- HHSA Region



* Rates per 100,000 population.
† Stroke death refers to (underlying cause of death) ICD-10 codes I60-I69. Stroke is sometimes referred to as Cerebrovascular disease.
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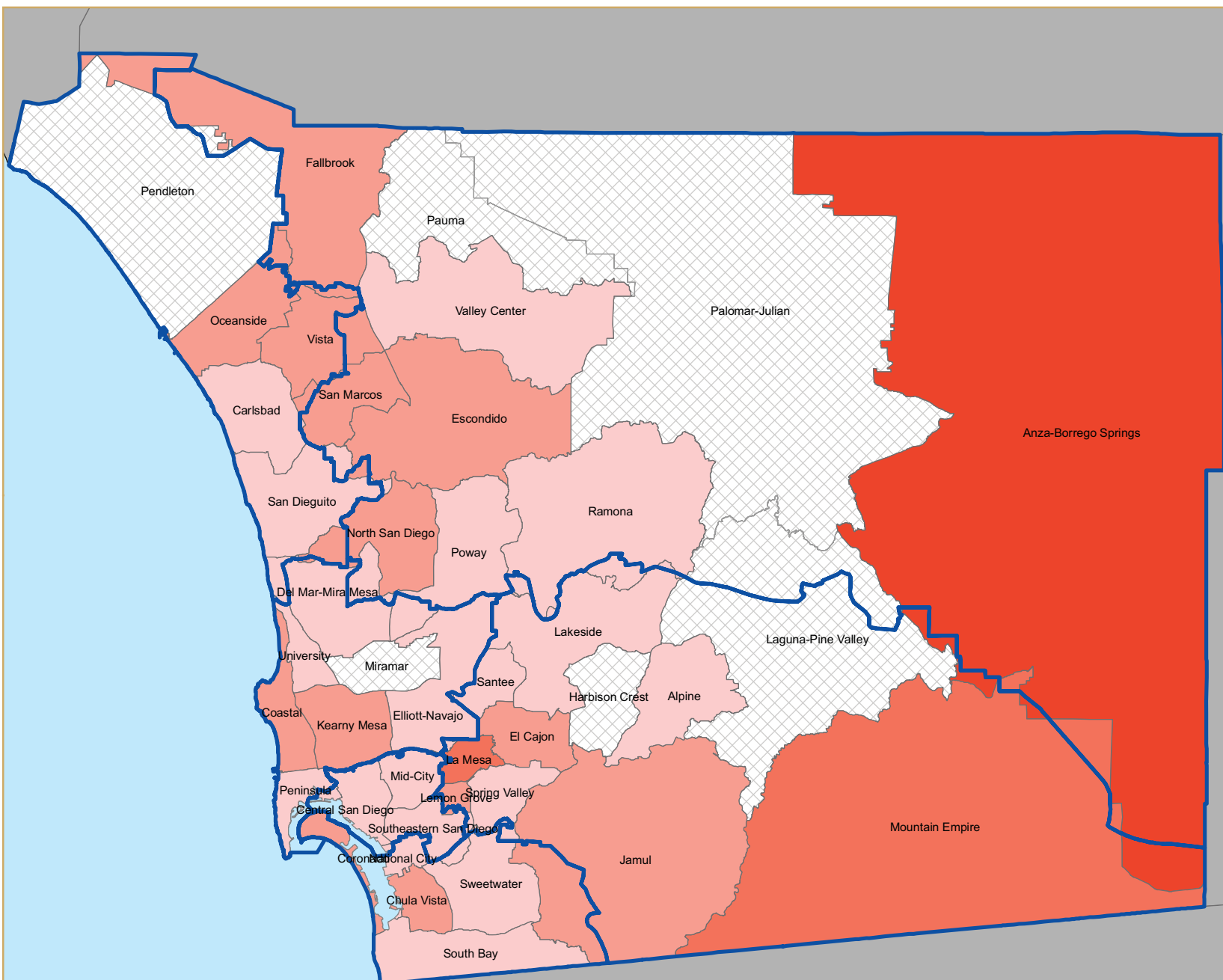
Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke Death Rates, 2005



Map Date: September, 2010
Contact: Isabel Corcos or Leslie Ray,
County of San Diego Emergency Medical Services
619.285.6429

NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
D_North_American_1983_Foot_US



* Rates per 100,000 population.

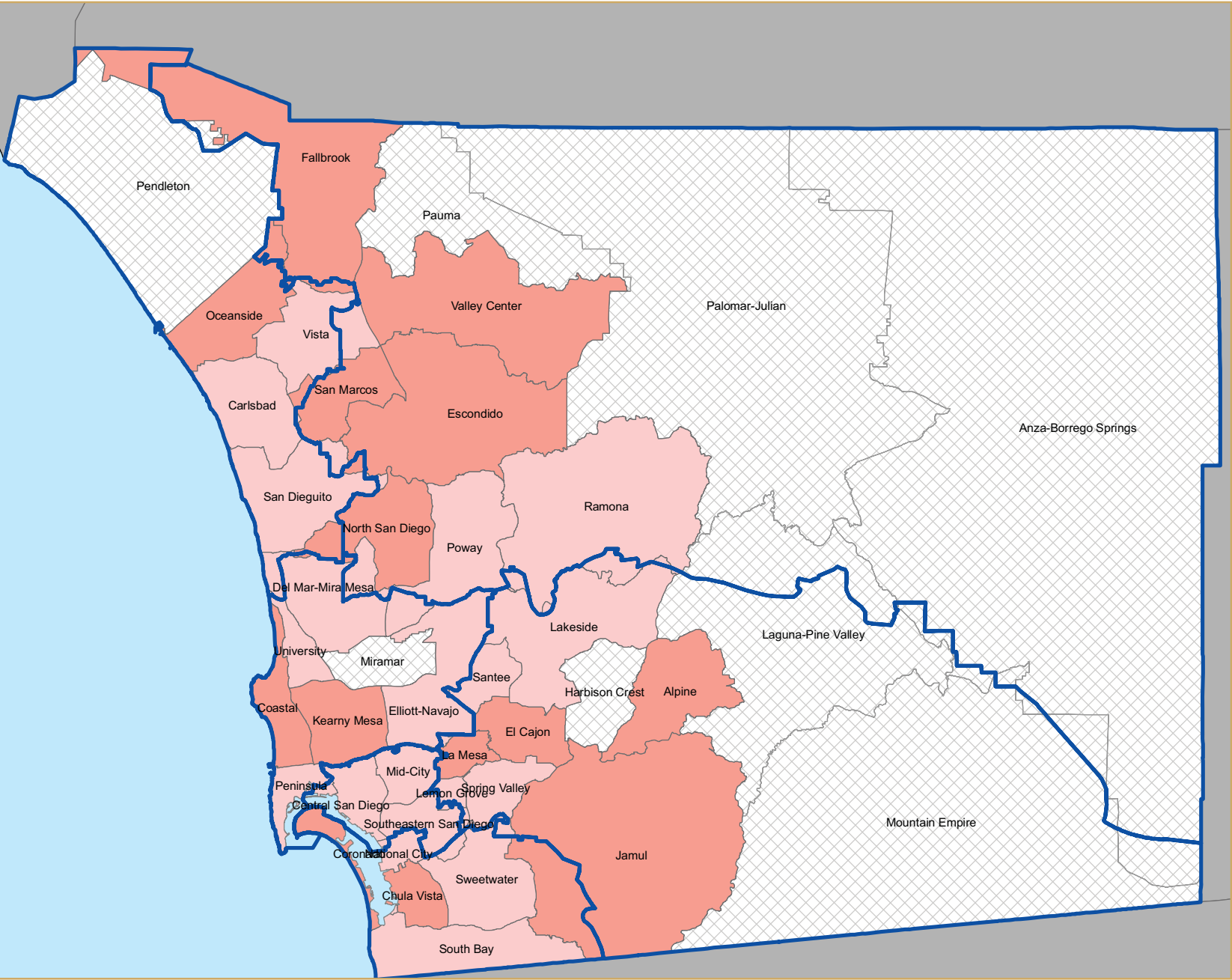
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Source: Death Statistical Master Files (CADPH), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch;
SANDAG, Current Population Estimates, 4/24/2009.

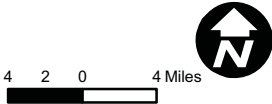
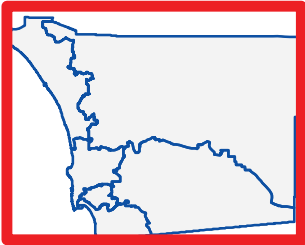
Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 9/10/2010.

Chronic Disease Outcome Rates
by Subregional Area (SRA)
in San Diego County



Stroke Death Rates, 2006

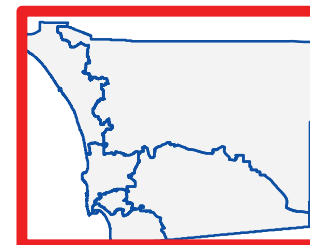
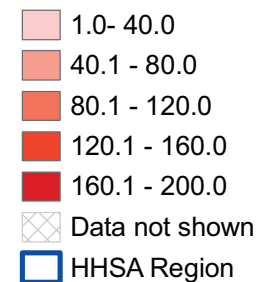
- 1.0 - 40.0
- 40.1 - 80.0
- 80.1 - 120.0
- 120.1 - 160.0
- 160.1 - 200.0
- Data not shown
- HHSA Region



* Rates per 100,000 population.
† Stroke death refers to (underlying cause of death) ICD-10 codes I60-I69. Stroke is sometimes referred to as Cerebrovascular disease.
§ Rates not calculated for fewer than 5 events. Rates not calculated in cases where zip code is unknown or outside San Diego County.

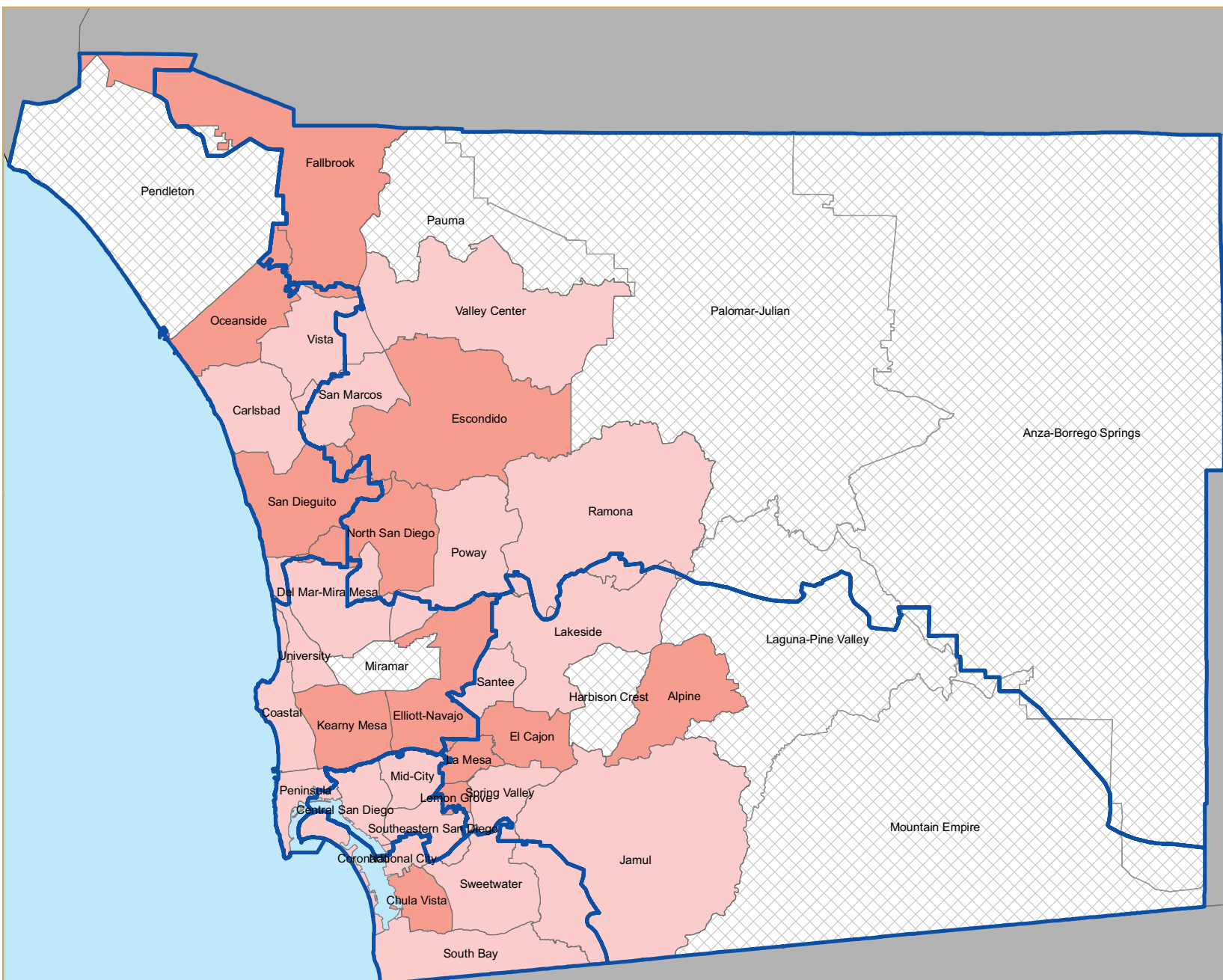
Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke Death Rates, 2007



Map Date: September, 2010
Contact: Isabel Corcos or Leslie Ray,
County of San Diego Emergency Medical Services
619.285.6429

NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
D_North_American_1983_Foot_US



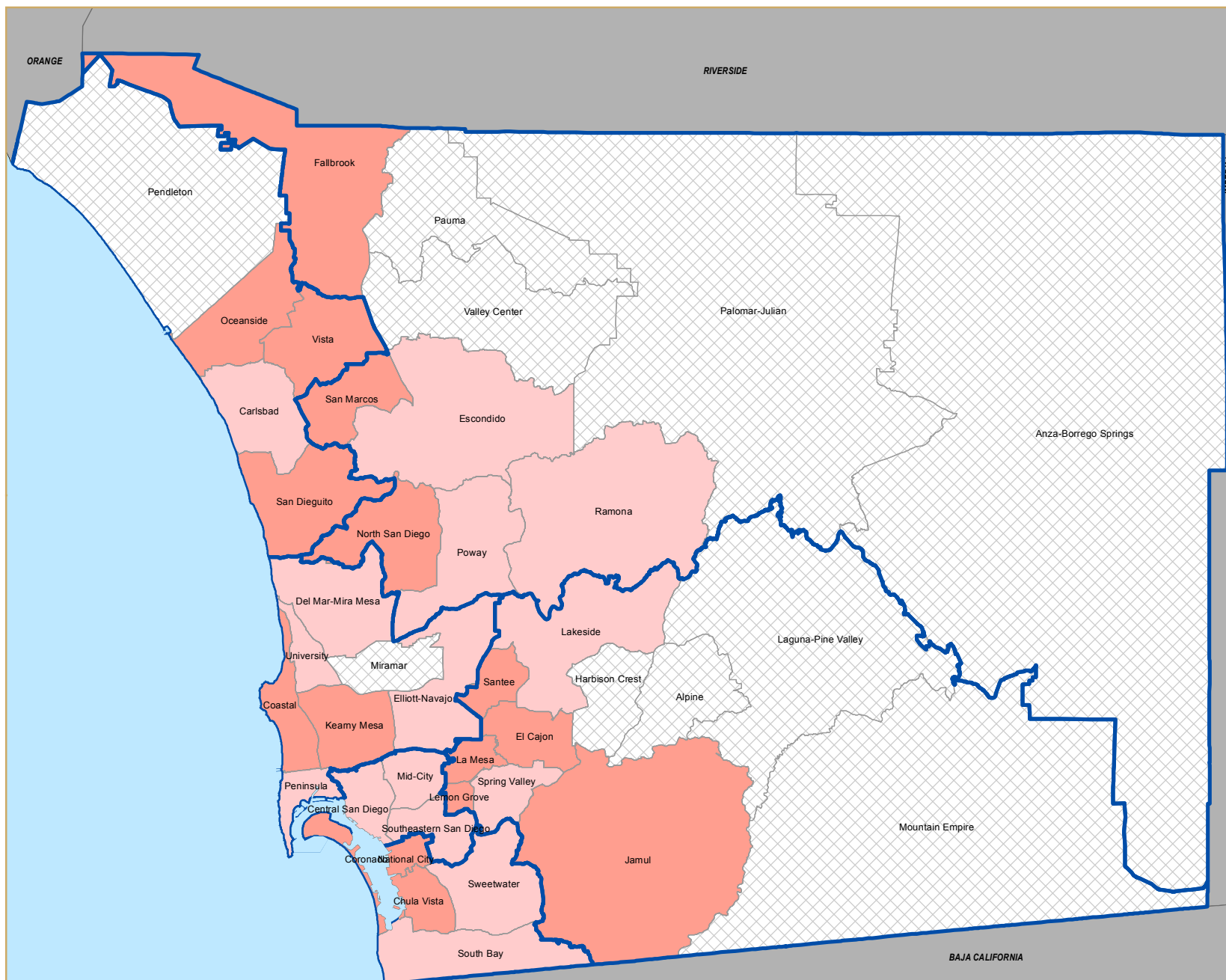
* Rates per 100,000 population.

† Stroke death refers to (underlying cause of death) ICD-10 codes I60-I69. Stroke is sometimes referred to as Cerebrovascular disease.

§ Rates not calculated for fewer than 5 events. Rates not calculated in cases where zip code is unknown or outside San Diego County.

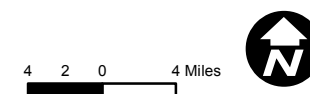
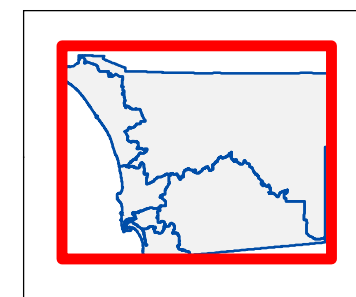
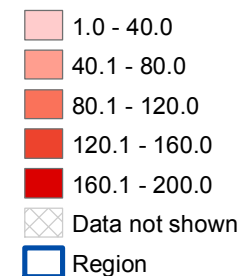
Source: Death Statistical Master Files (CADPH), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch;
SANDAG, Current Population Estimates, 4/24/2009.

Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 9/10/2010.



Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke Death Rates, 2008



* Rates per 100,000 population.

† Stroke death refers to (underlying cause of death) ICD -10 codes I60-I69. Stroke is sometimes referred to as Cerebrovascular disease.

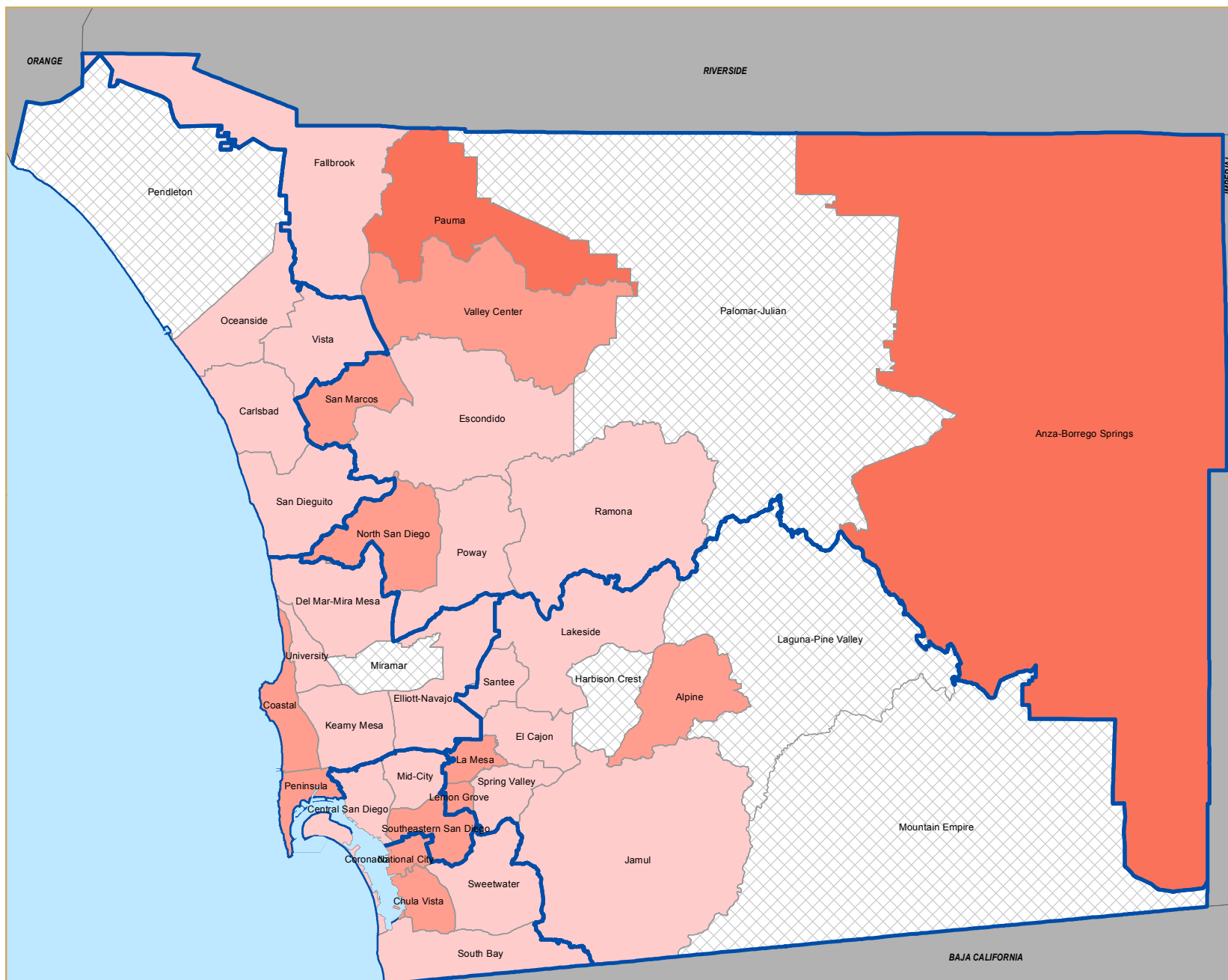
§ Rates not calculated for fewer than 5 events. Rates not calculated in cases where zip code is unknown or outside San Diego County.

Source: Death Statistical Master Files (CA DPH), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch; SANDAG, Current Population Estimates, 10/2010.

Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 04/2012.

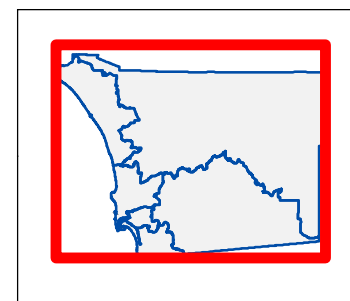
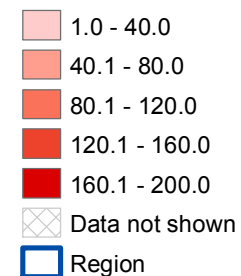
Map Date: June, 2012
Contact: Isabel Corcos or Leslie Ray,
County of San Diego Emergency Medical Services
619.285.6429

NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
D_North_American_1983, Foot_US



Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke Death Rates, 2009



4 2 0 4 Miles



* Rates per 100,000 population.

† Stroke death refers to (underlying cause of death) ICD -10 codes I60-I69. Stroke is sometimes referred to as Cerebrovascular disease.

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Source: Death Statistical Master Files (CA DPH), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch; SANDAG, Current Population Estimates, 10/2010.

Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 04/2012.

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NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
D_North_American_1983, Foot_US

**Stroke Hospitalization Rates
Among San Diego County Residents
by Subregional Area**

Maps by Year:

2000

2001

2002

2003

2004

2005

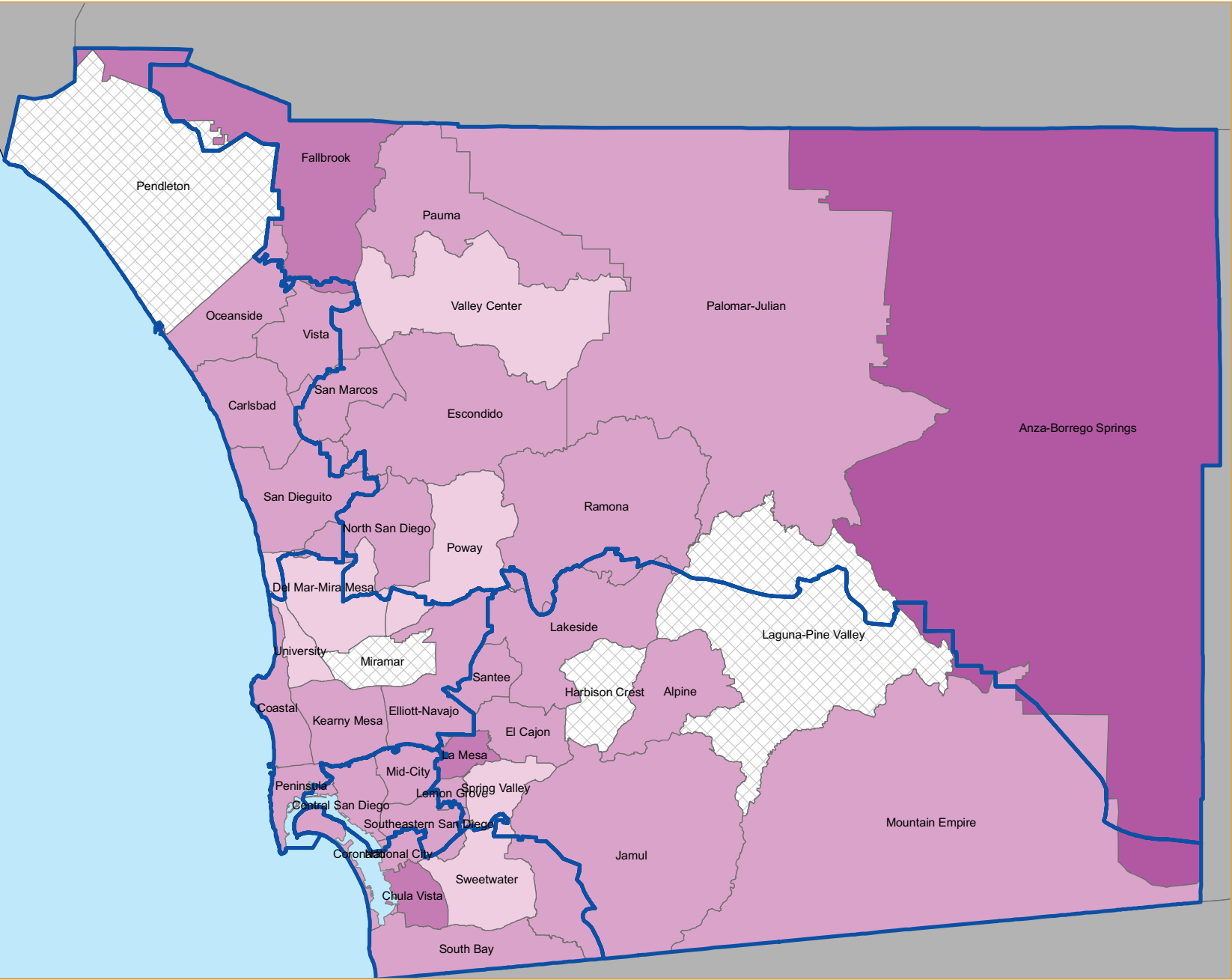
2006

2007

2008

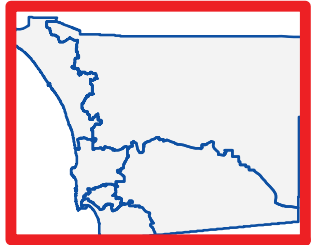
2009

Chronic Disease Outcome Rates
by Subregional Area (SRA)
in San Diego County



Stroke Hosp Rates, 2000

- 1.0 - 200.0
- 200.1 - 400.0
- 400.1 - 600.0
- 600.1 - 800.0
- 800.1 - 1000.0
- Data not shown
- HHS Region



4 2 0 4 Miles



* Rates per 100,000 population.

† Stroke hospitalization refers to (principal diagnosis) ICD 9 codes 430-438. Stroke is sometimes referred to as Cerebrovascular disease.

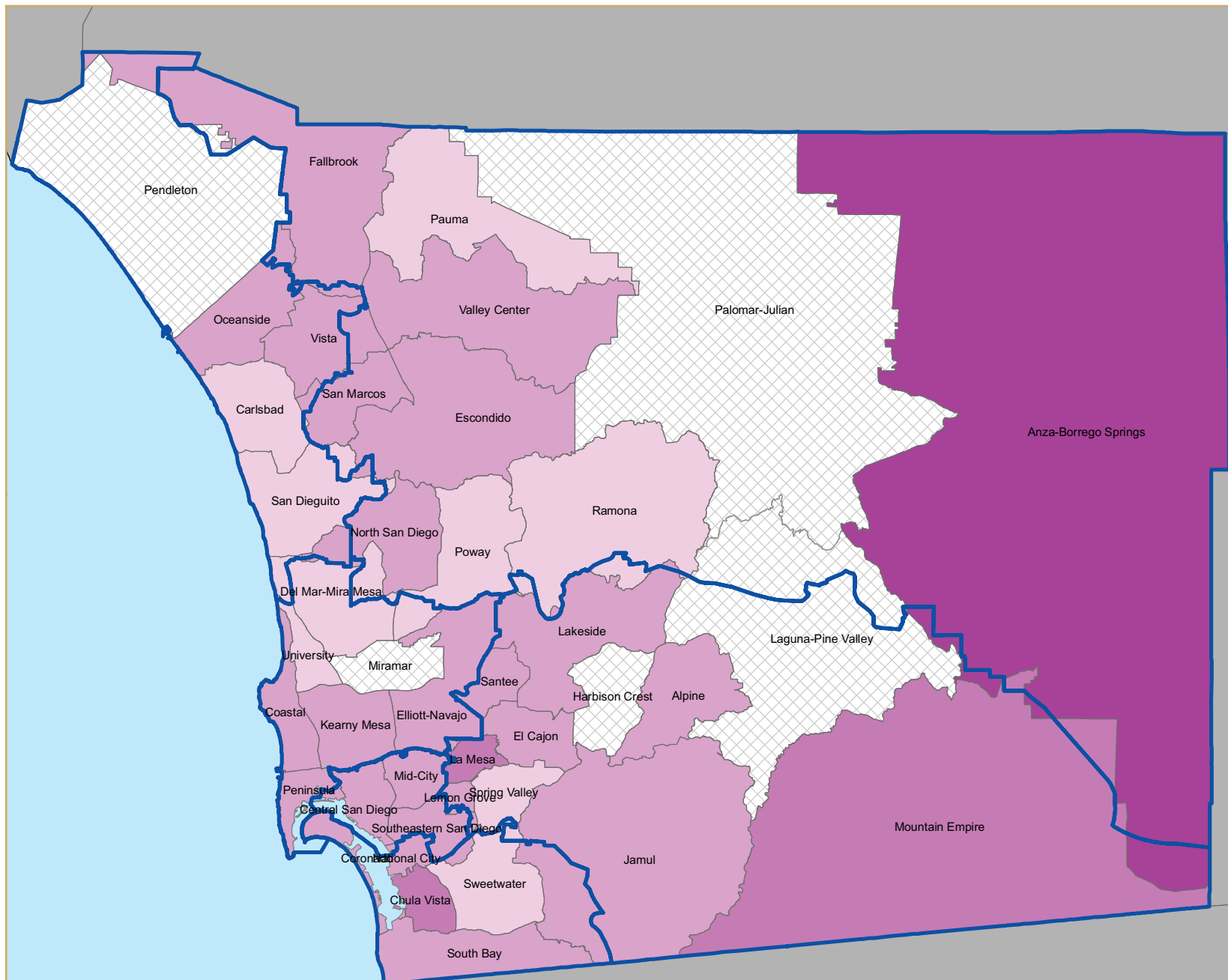
§ Rates not calculated for fewer than 5 events. Rates not calculated in cases where zip code is unknown or outside San Diego County.

Source: Hospital Discharge Data, (CA OSHPD), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch; SANDAG, Current Population Estimates, 4/24/2009.

Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHS), Community Health Statistics, 9/10/2010.

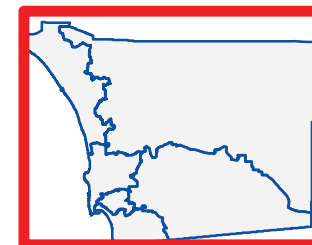
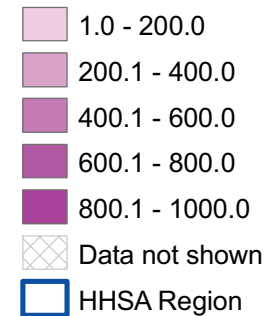
Map Date: September, 2010
Contact: Isabel Corcos or Leslie Ray,
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619.285.6429

NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
D_North_American_1983, Foot_US



Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke Hosp Rates, 2001



4 2 0 4 Miles



* Rates per 100,000 population.

† Stroke hospitalization refers to (principal diagnosis) ICD 9 codes 430-438. Stroke is sometimes referred to as Cerebrovascular disease.

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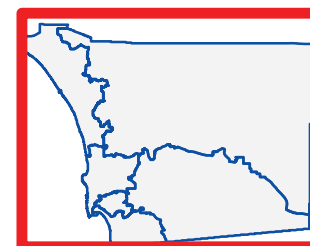
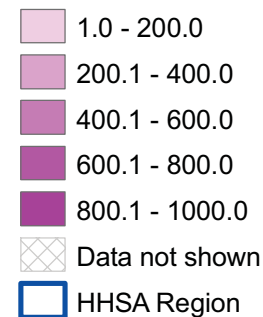
Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 9/10/2010.

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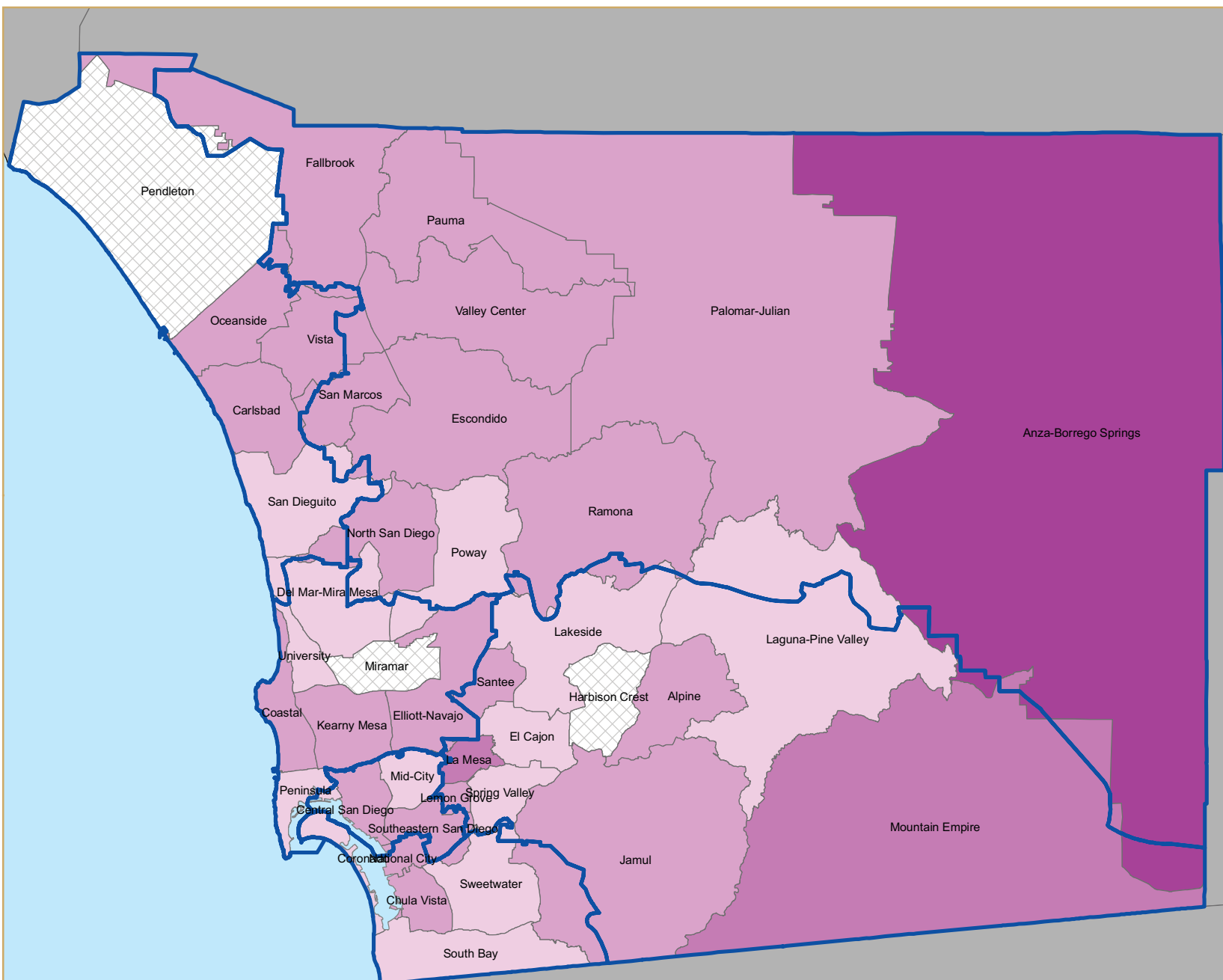
NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
D_North_American_1983_Foot_US

Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke Hosp Rates, 2002



4 2 0 4 Miles



* Rates per 100,000 population.

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Source: Hospital Discharge Data, (CA OSHPD), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch; SANDAG, Current Population Estimates, 4/24/2009.

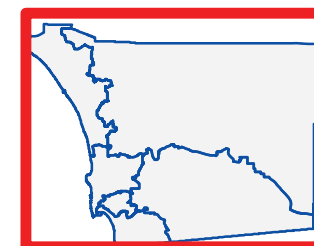
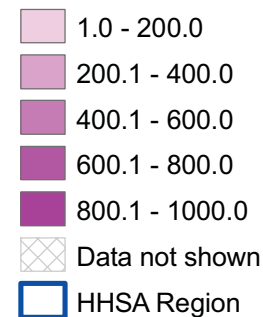
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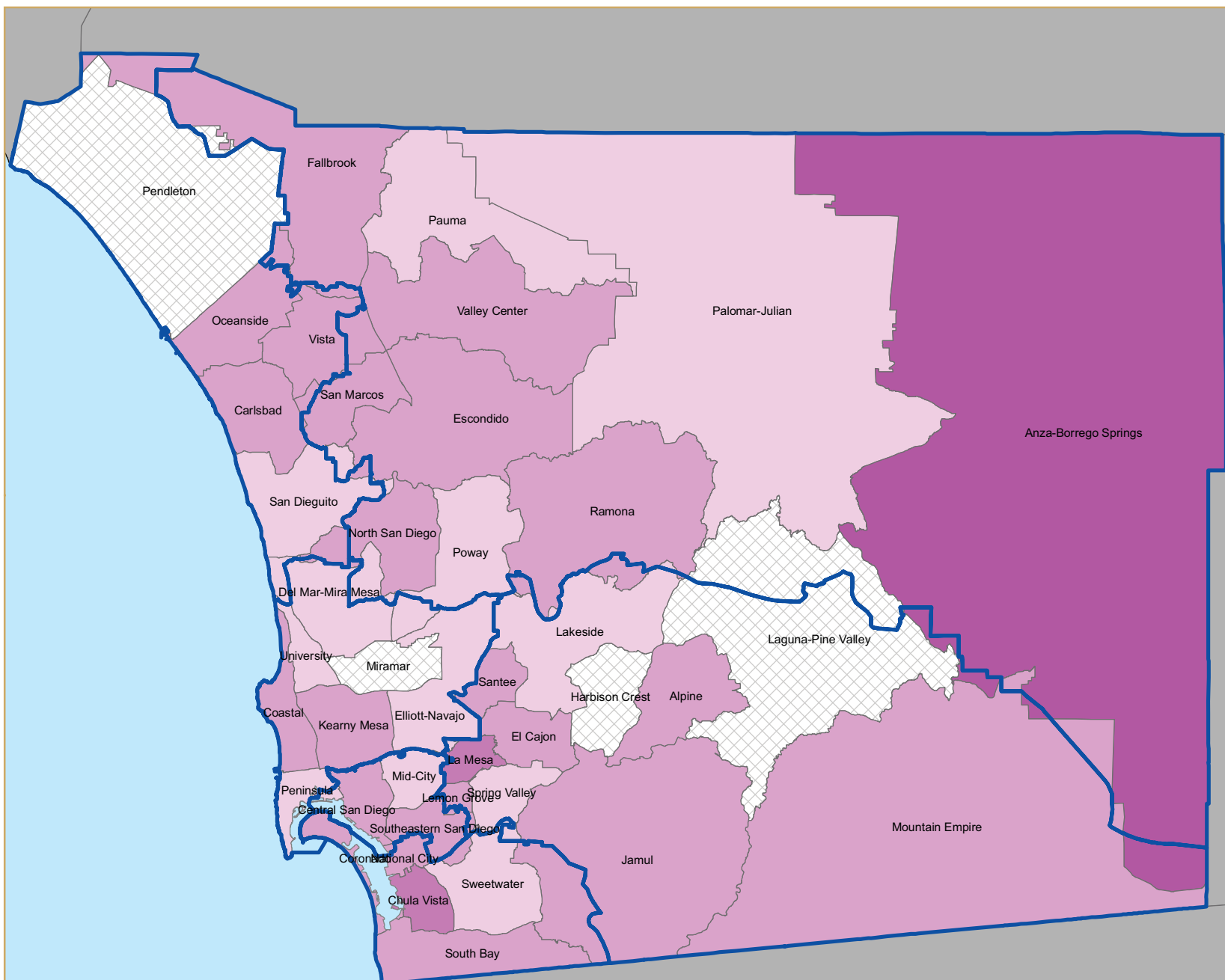
NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
D_North_American_1983_Foot_US

Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke Hosp Rates, 2003



4 2 0 4 Miles



* Rates per 100,000 population.

† Stroke hospitalization refers to (principal diagnosis) ICD 9 codes 430-438. Stroke is sometimes referred to as Cerebrovascular disease.

§ Rates not calculated for fewer than 5 events. Rates not calculated in cases where zip code is unknown or outside San Diego County.

Source: Hospital Discharge Data, (CA OSHPD), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch; SANDAG, Current Population Estimates, 4/24/2009.

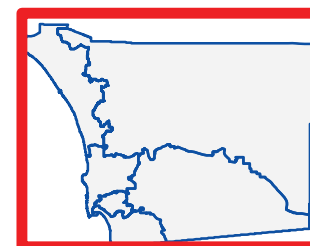
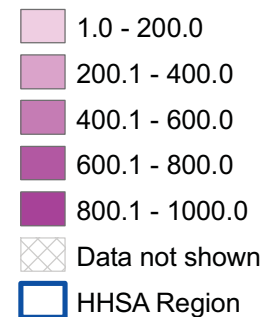
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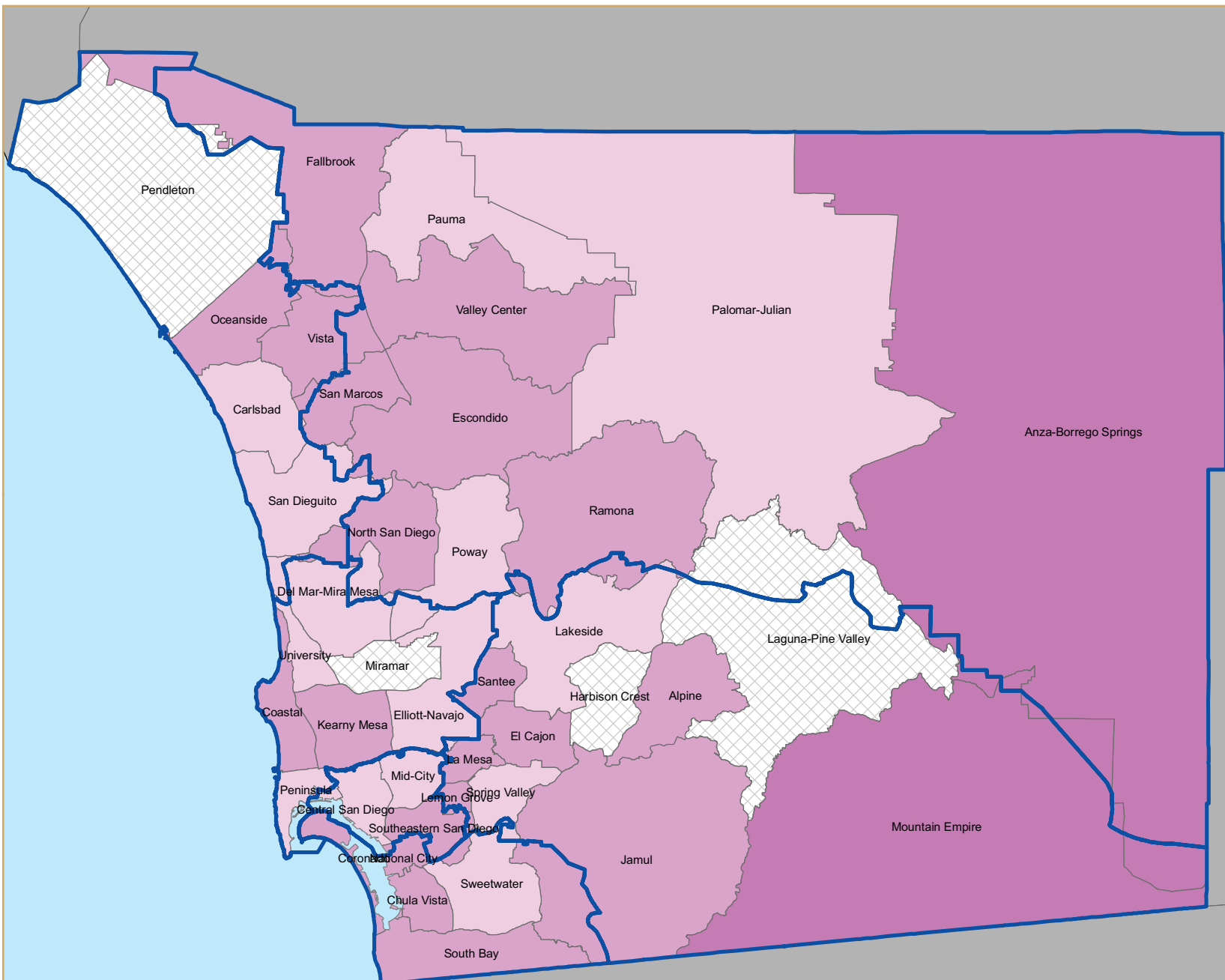
NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
D_North_American_1983_Foot_US

Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke Hosp Rates, 2004



4 2 0 4 Miles



* Rates per 100,000 population.

† Stroke hospitalization refers to (principal diagnosis) ICD 9 codes 430-438. Stroke is sometimes referred to as Cerebrovascular disease.

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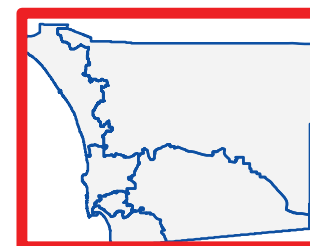
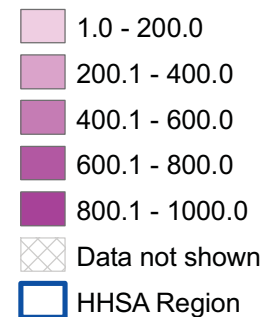
Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 9/10/2010.

Map Date: September, 2010
Contact: Isabel Corcos or Leslie Ray,
County of San Diego Emergency Medical Services
619.285.6429

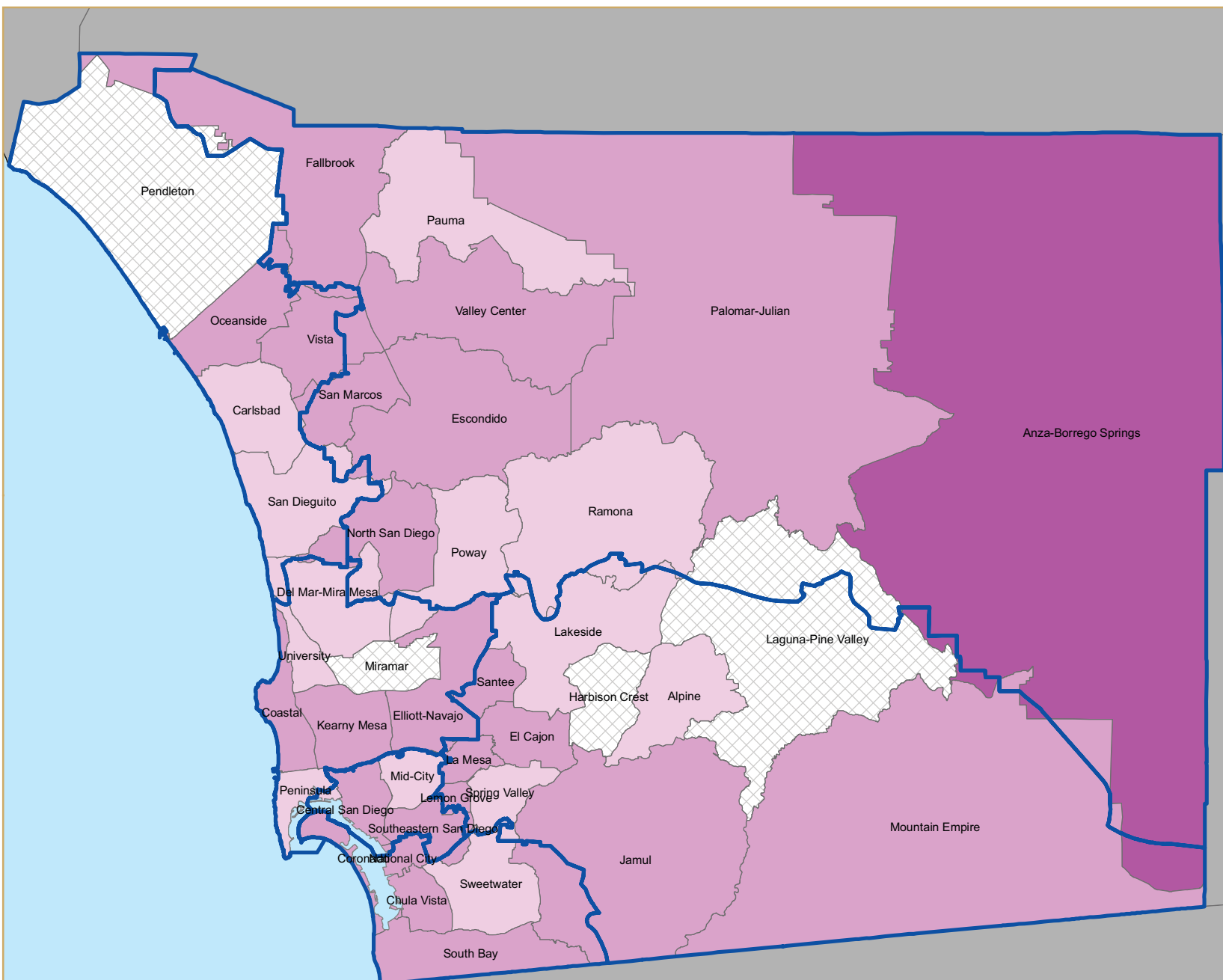
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Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke Hosp Rates, 2005



4 2 0 4 Miles



* Rates per 100,000 population.

† Stroke hospitalization refers to (principal diagnosis) ICD 9 codes 430-438. Stroke is sometimes referred to as Cerebrovascular disease.

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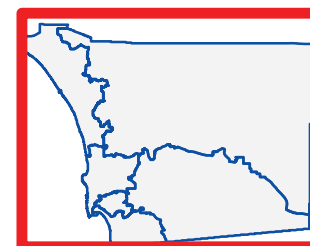
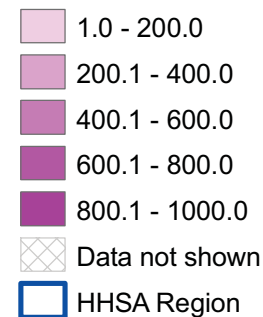
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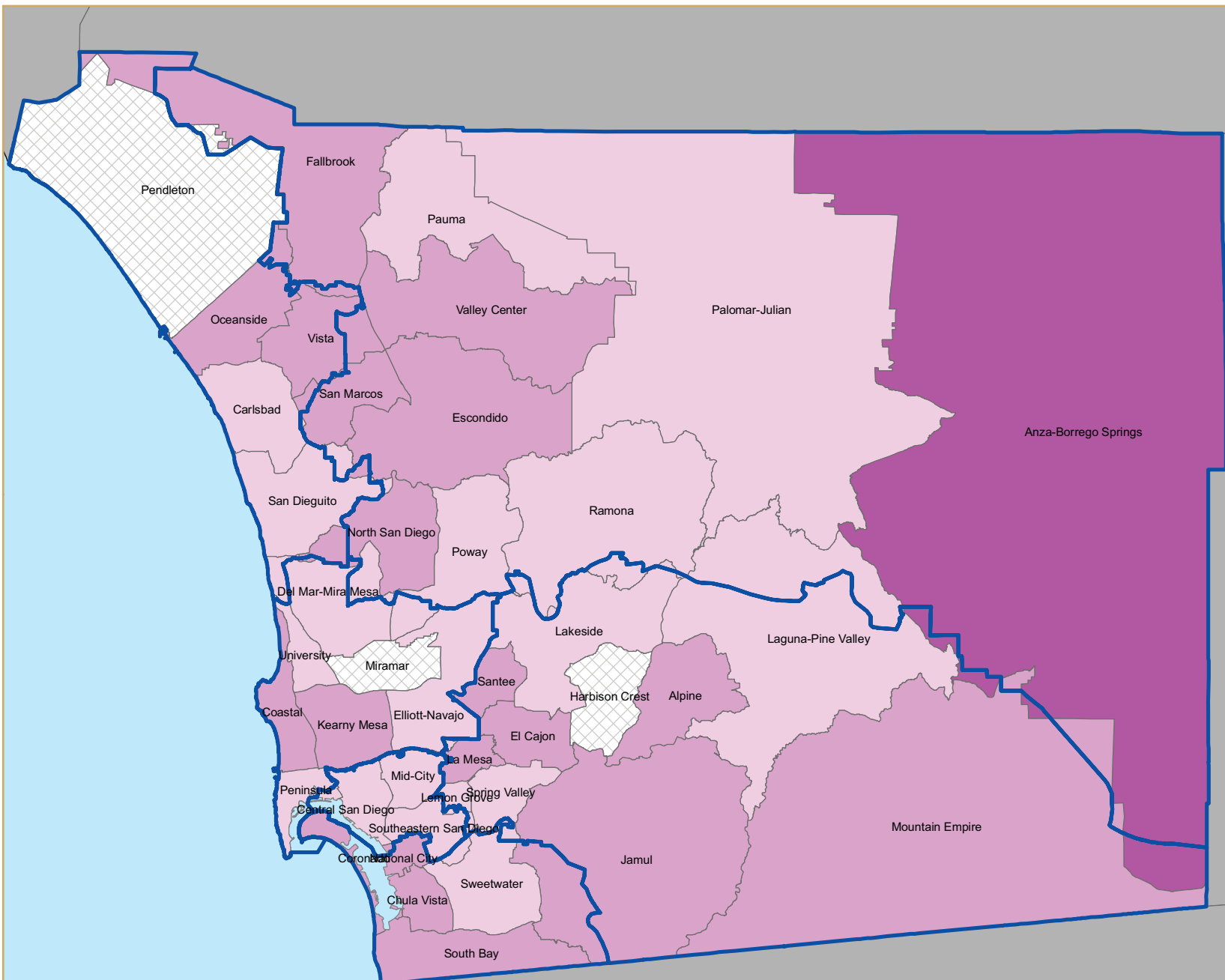
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Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke Hosp Rates, 2006



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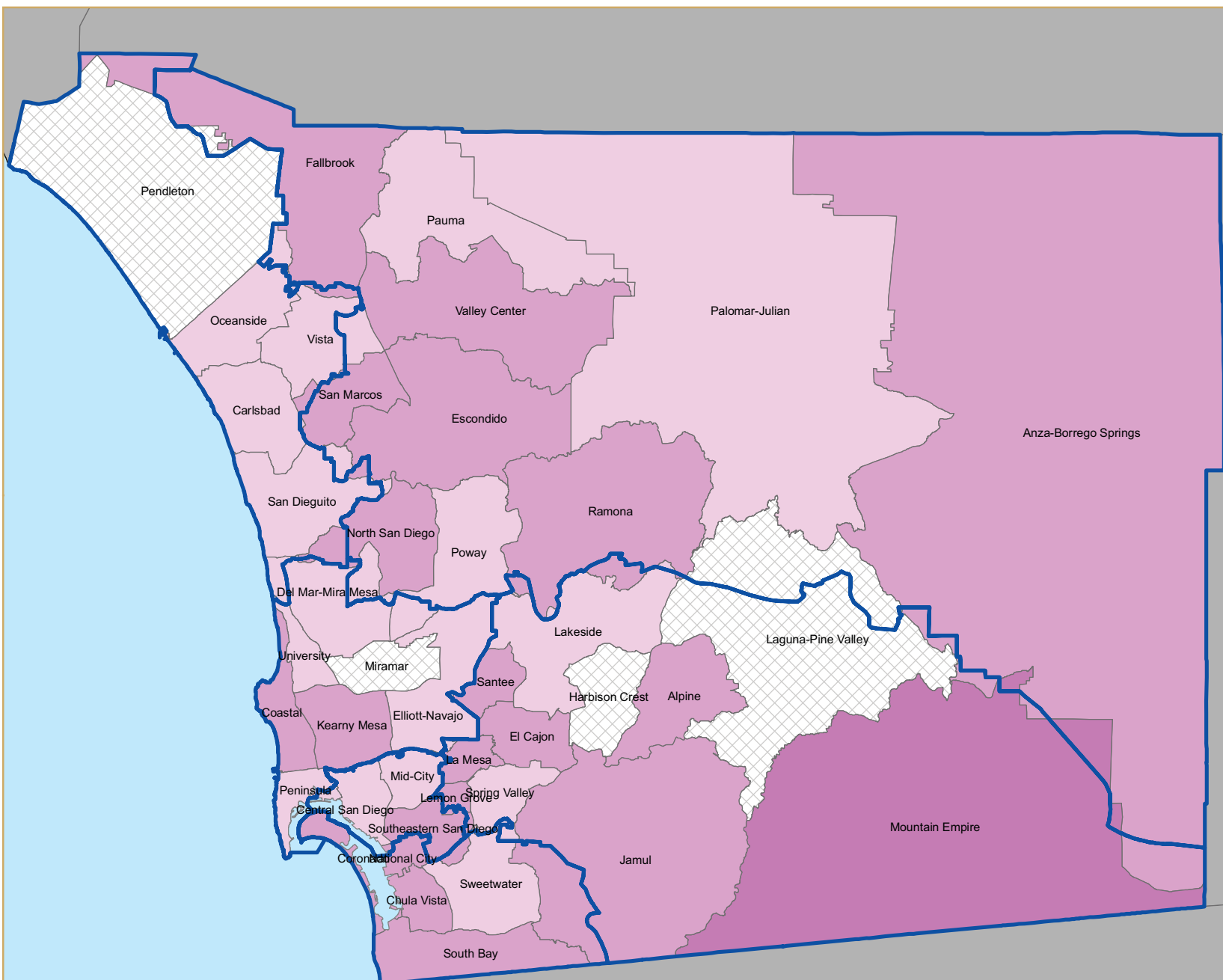
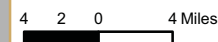
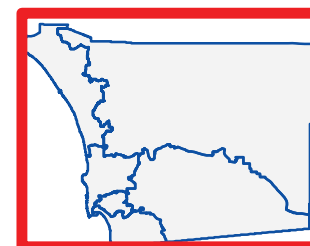
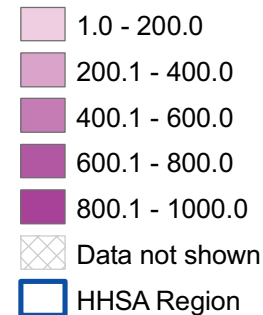
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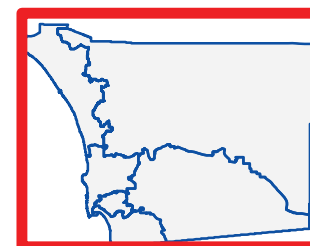
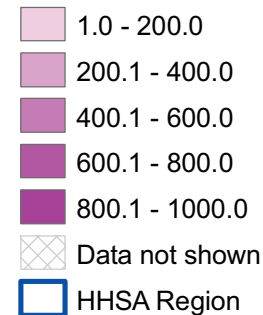
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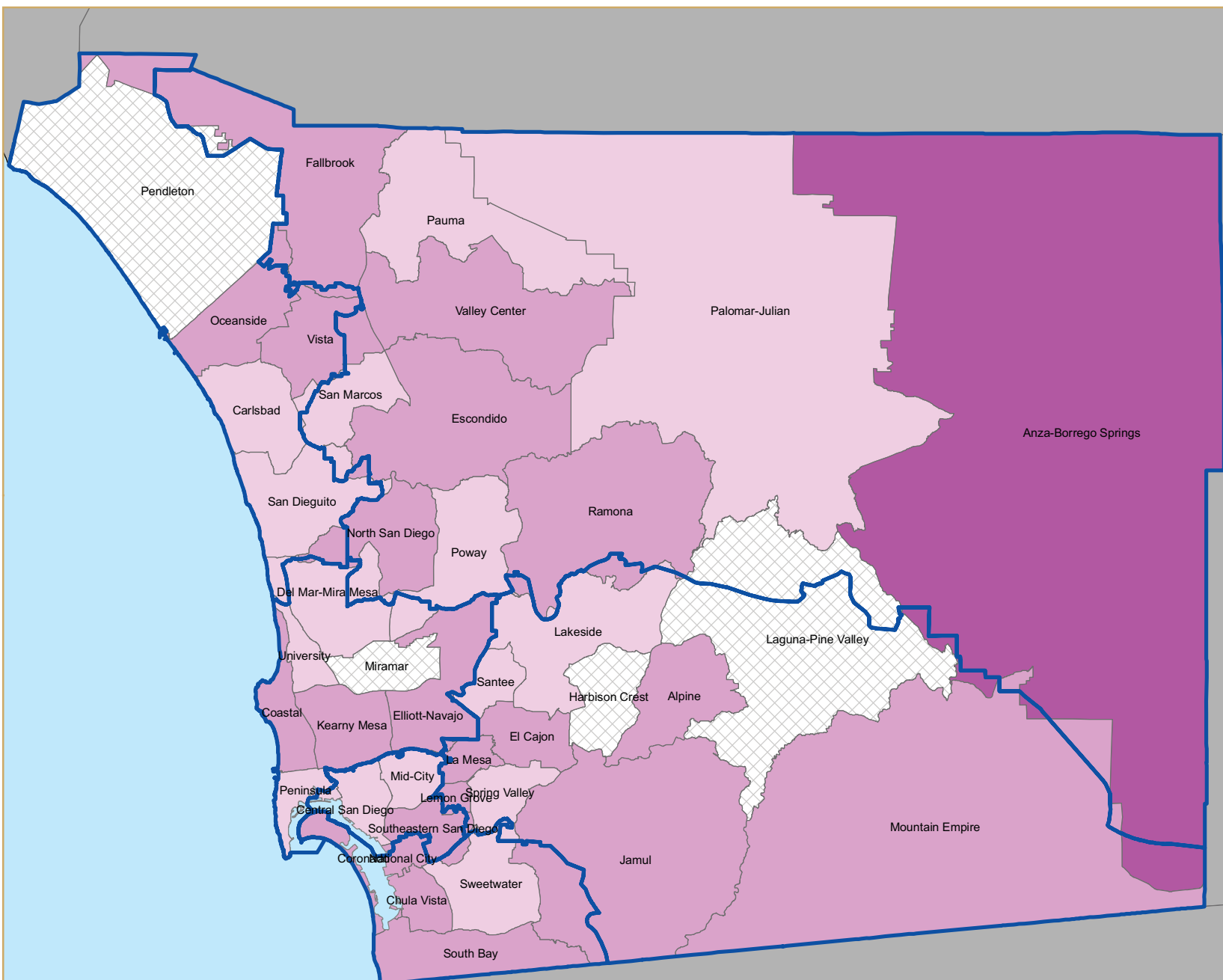
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Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke Hosp Rates, 2008



4 2 0 4 Miles



* Rates per 100,000 population.

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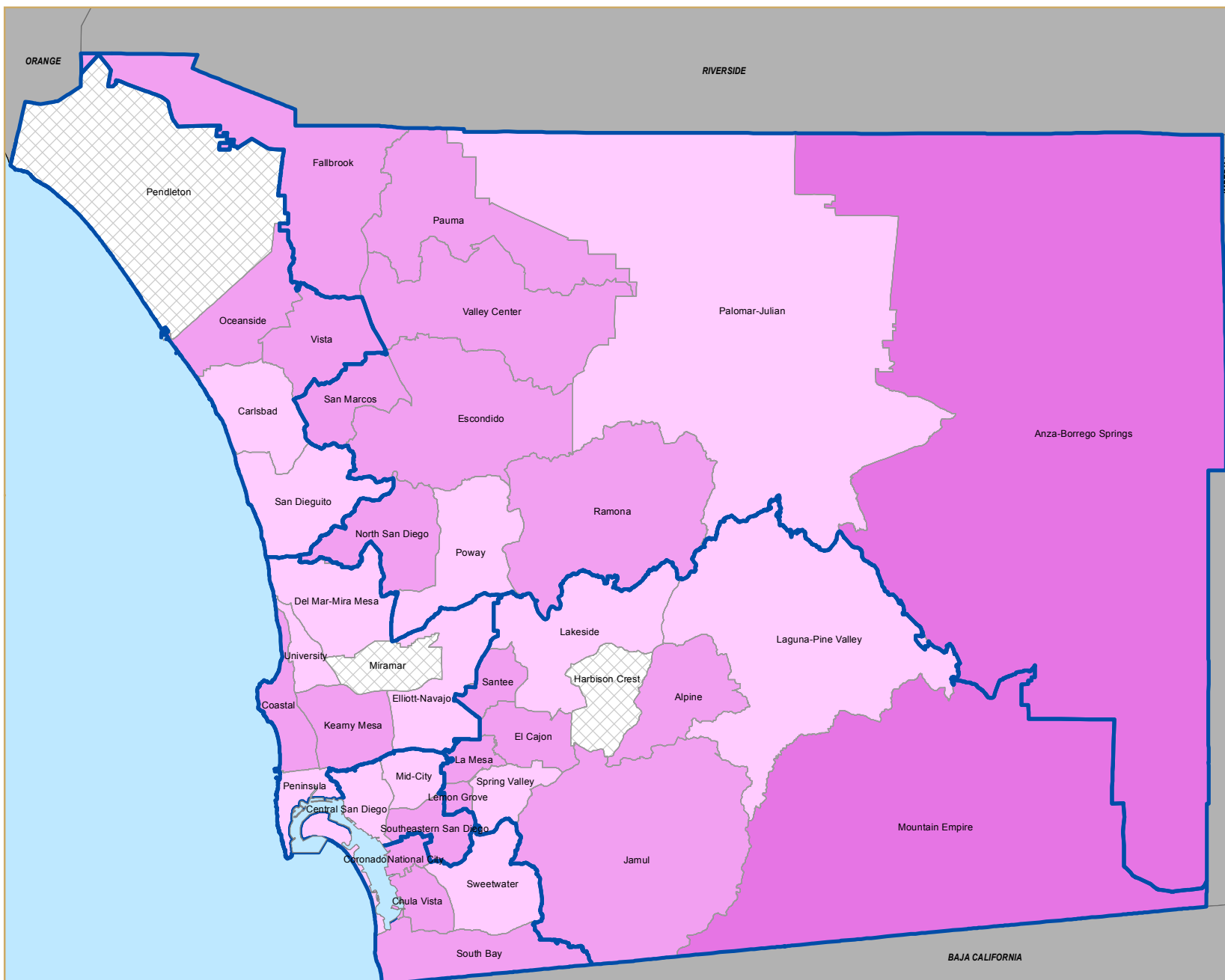
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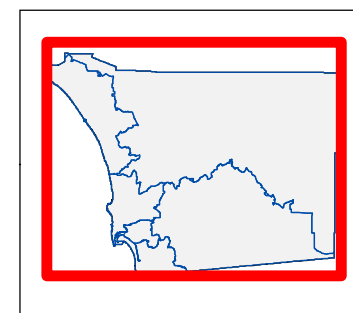
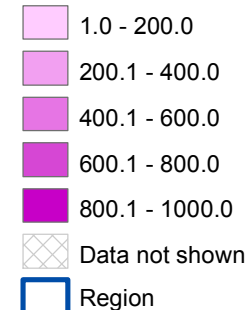
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Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke Hosp Rates, 2009



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NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
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**Stroke Emergency Department Discharge Rates
Among San Diego County Residents
by Subregional Area**

Maps by Year:

2006

2007

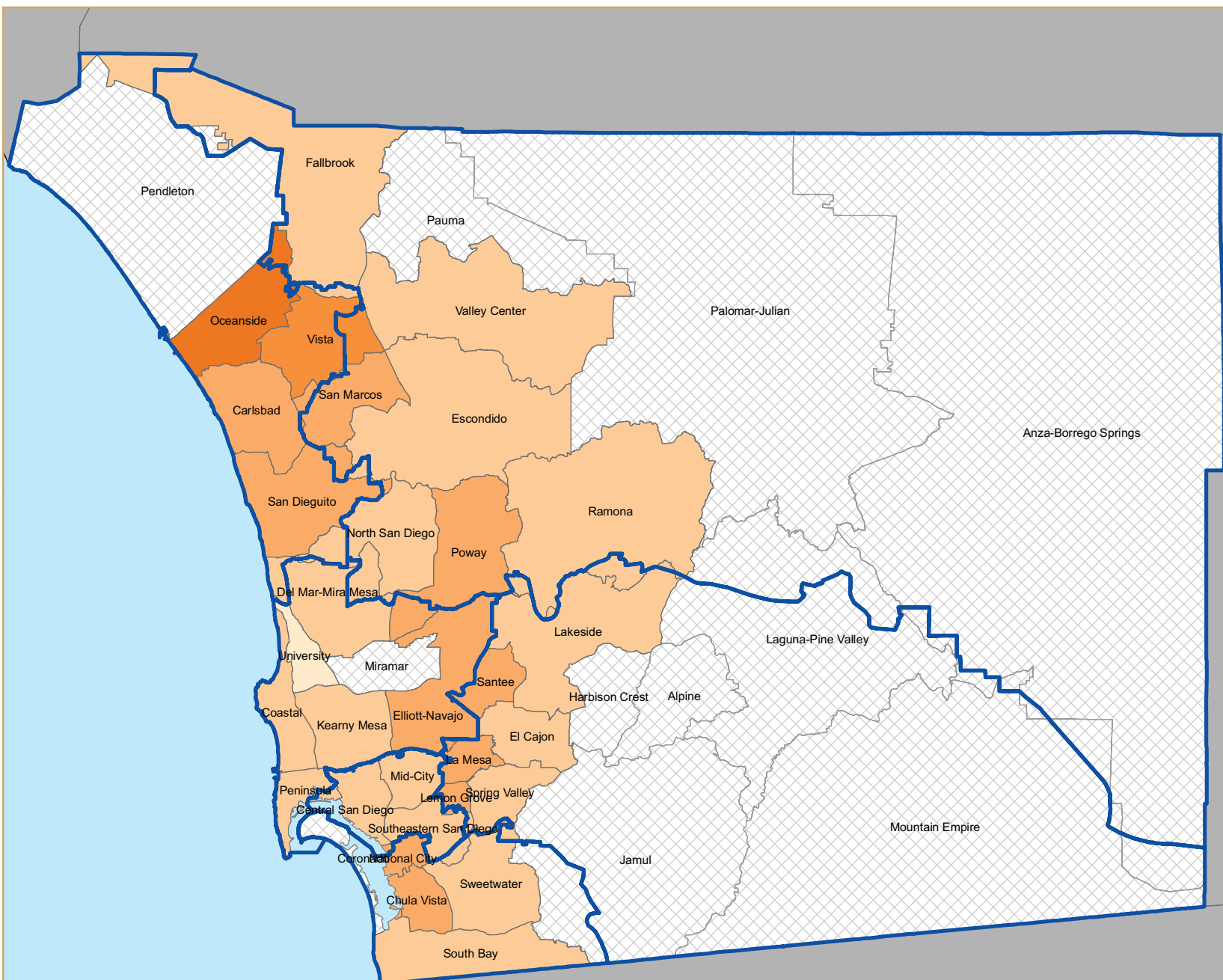
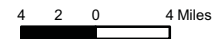
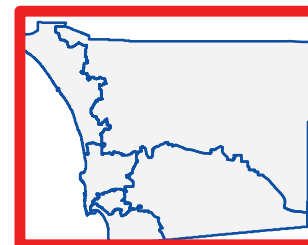
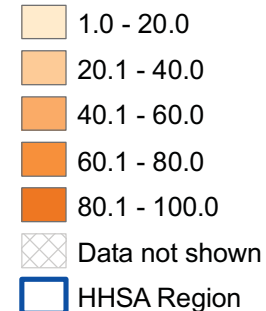
2008

2009

Note: ED Discharge data is a new database. 2006 is first year of available data.

Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke ED Rates, 2006



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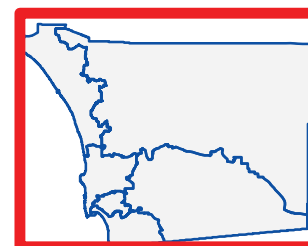
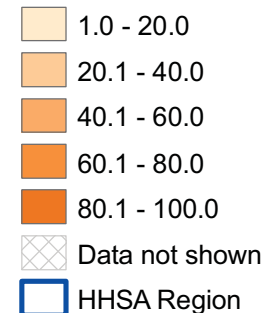
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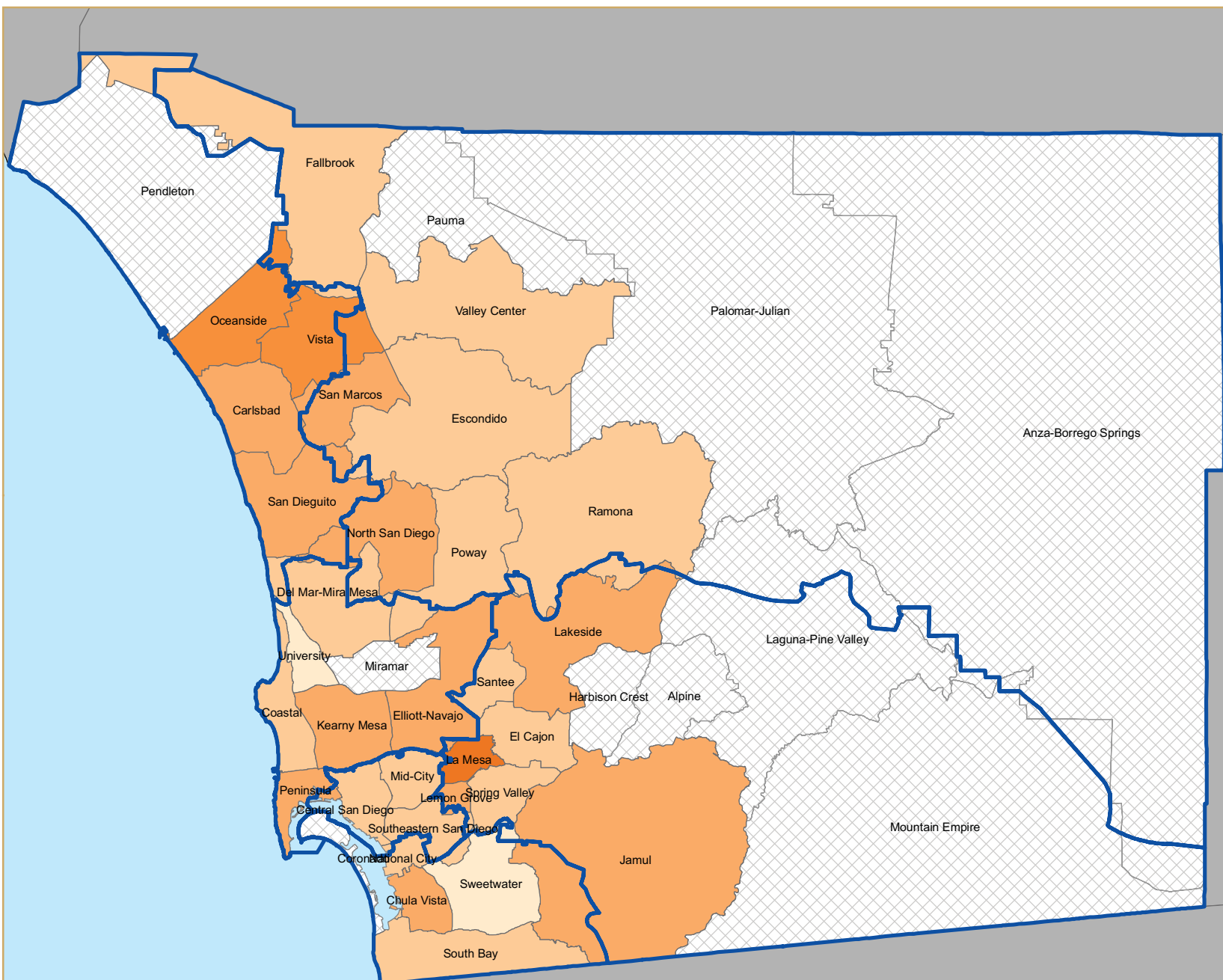
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Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke ED Rates, 2007



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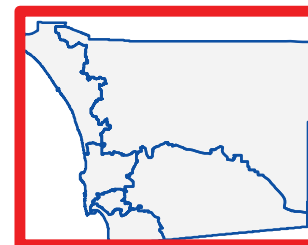
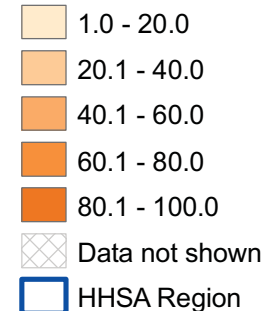
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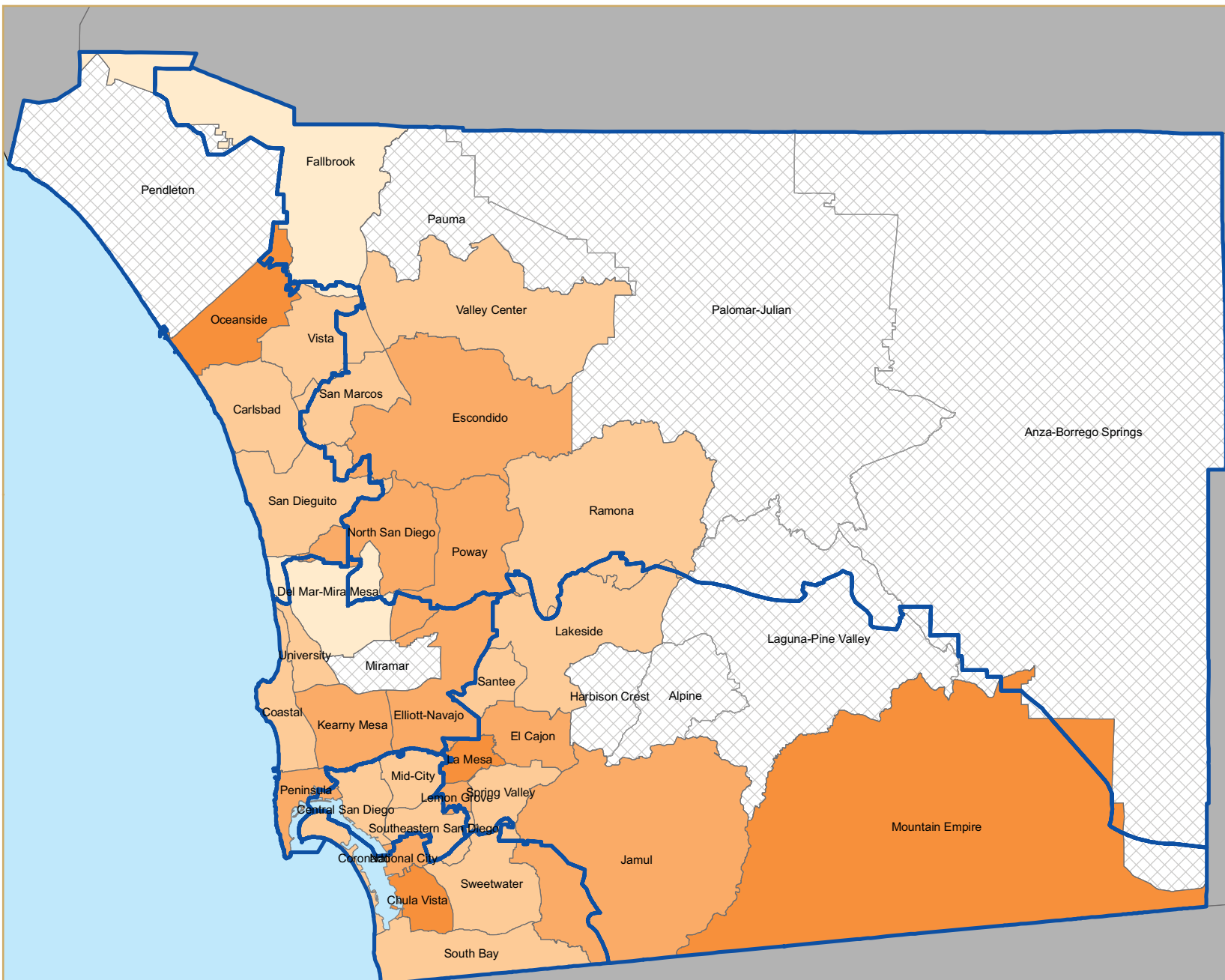
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Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

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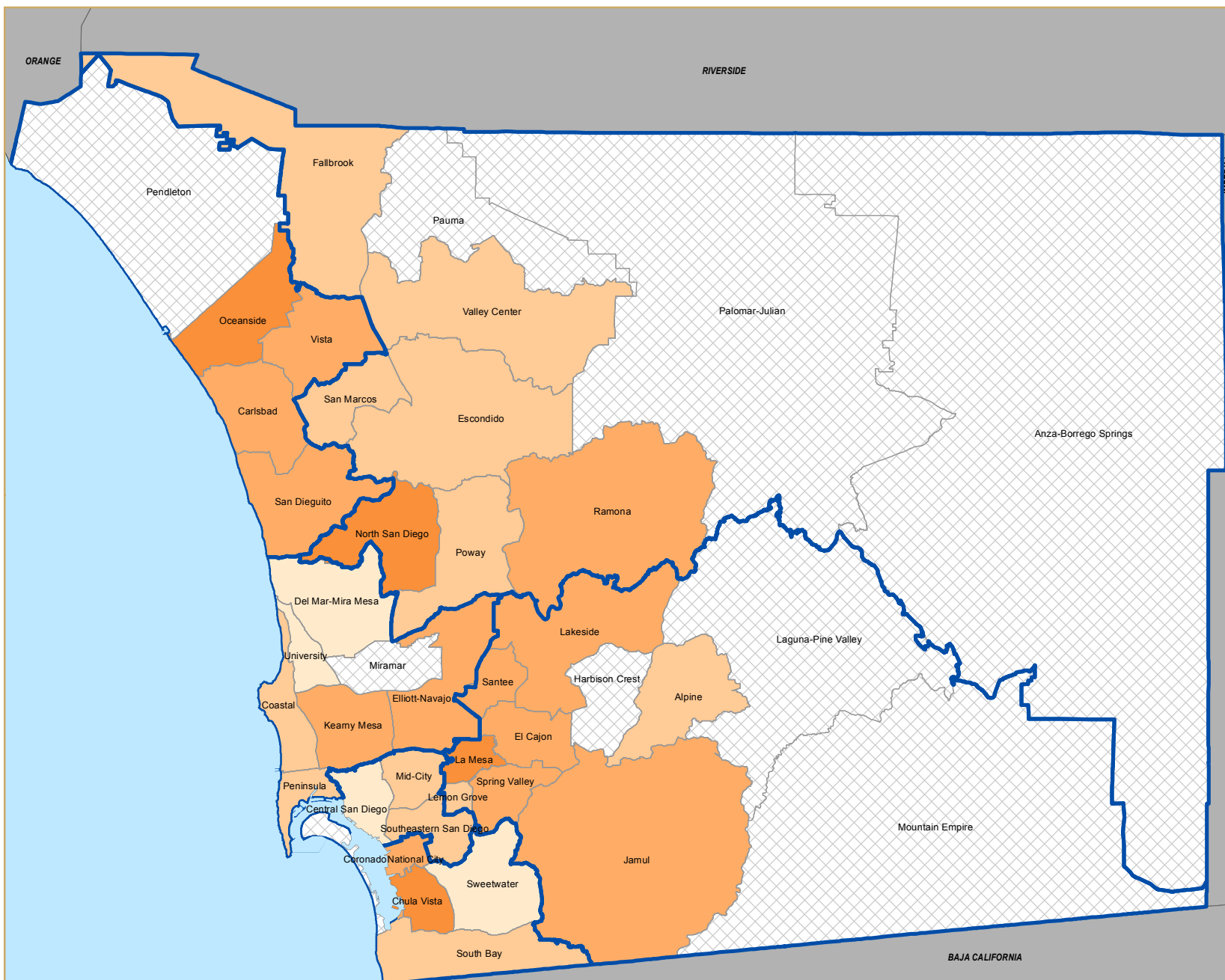
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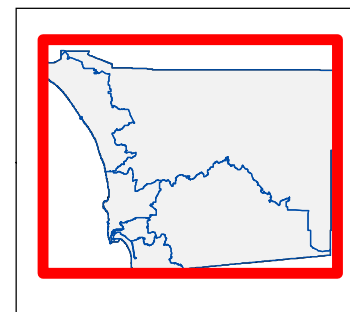
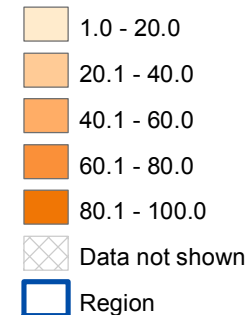
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Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke ED Rates, 2009



4 2 0 4 Miles



COUNTY OF SAN DIEGO
HHS
HEALTH AND HUMAN SERVICES AGENCY

SANDAG
San Diego Area Regional
Development Authority

SanGIS
San Diego Geographic Information
System

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NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
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San Diego County Board of Supervisors



Greg Cox
District One



Dianne Jacob
District Two



Pam Slater-Price
District Three



Ron Roberts
District Four



Bill Horn
District Five

Chief Administrative Officer
Walter F. Ekard

Assistant Chief Administrative Officer
Helen Robbins-Meyer

General Managers

Mikel D. Haas General Manager Community Services Group	Don Steuer Chief Financial Officer/General Manager Finance & General Government Group	Nick Macchione Agency Director Health and Human Services Agency	Sarah E. Aghassi General Manager Land Use & Environment Group	Ron Lane General Manager Public Safety Group
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